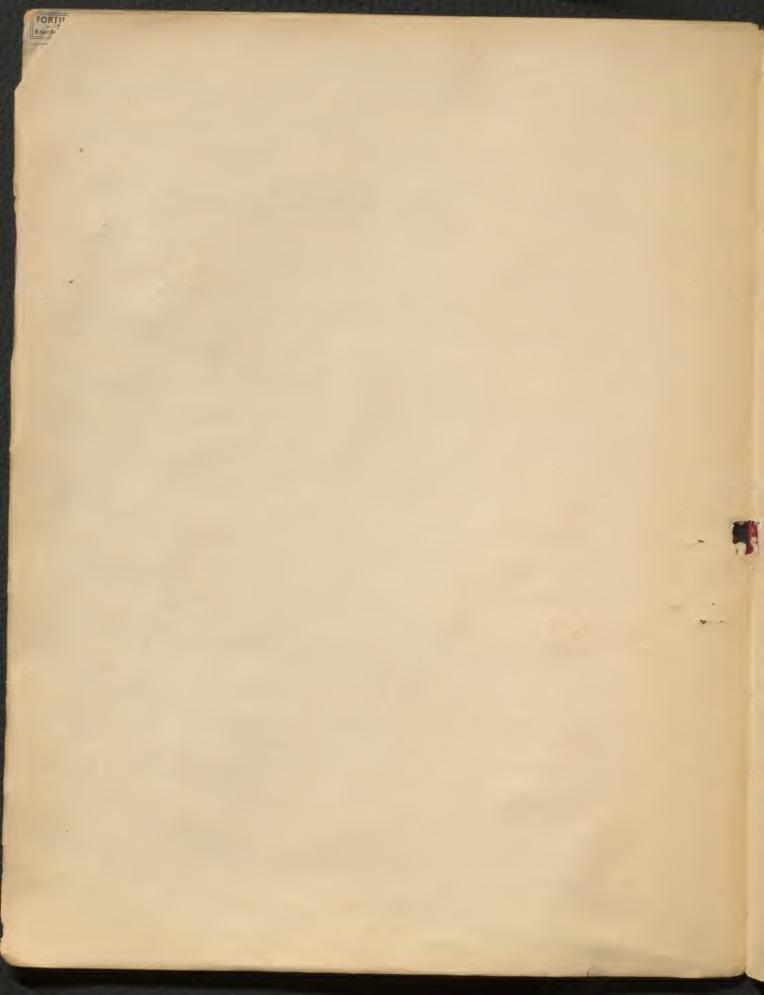
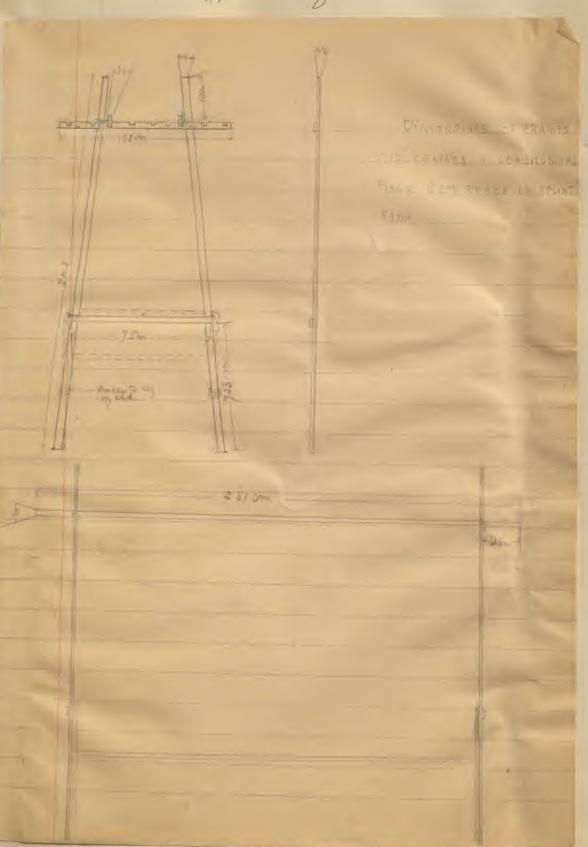




M.g. Penfield. Cinerican Red Cross Hospital 6 Rue Piccini Paris. Peter Bent Brigheam Haspital Boston.



apparatus of Dr. Blake



Sinclair Shate.



The strips of felt are sewed to small curtain rings.

Each strip is cut as desired and glued to foot (Henseurs glue gave good risults) The two posterior strips are run a little way up tendo-achilles. Strips are bound on wich bound age while drying.

The shate is well padded and attached several hours later. By adjusting the cross bar the leg should be kept in external rotation. By alteration of the attachment of the

the attackment of the extension rope inversion of foot may be provided.

Raising and lowering the slings supports of the leg lowers or raises the toe is decreases or microsses the esthe dorsiflexion.

of leg an average of 4 lbo.is

Sinclair Skata





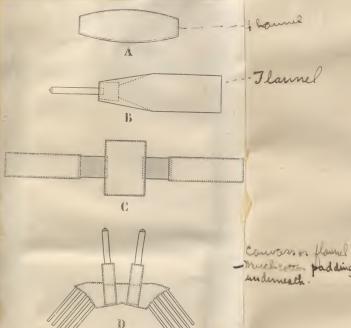
Heussners Glue for Extension

-		
	Colophane. 50.0 Alcool à 90 0/0. 50.0 Térébenthine de Venise. 1.0 Benzine. 10.0	ı
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Patient must will then fined by Solvelly in electron to ther.

2 inclais glue. Common glue Shymol Calcium Chlorido Ily cerine 200

no need to whove patient Stasolves in water. must be heated each time before use to very musy.



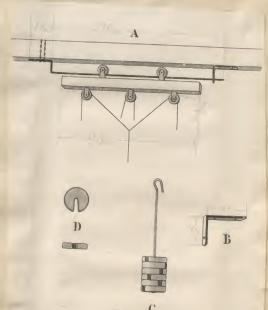
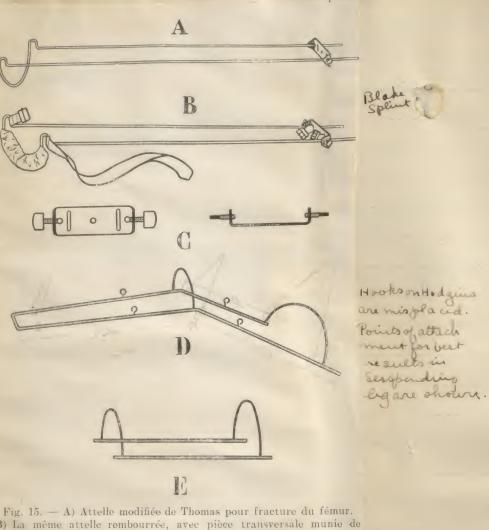


Fig. 1. — A) Détails du trolley. La barre en fer du trolley est recourbée à son extrémité gauche

et fixée à la barre en bois située au-dessus; son extrémité droite, au contraire, passe dans un trou pratiqué dans l'équerre B), laquelle est elle-même fixée à la barre en bois du dessus. C) et D). Détails du poids en plomb.

Fig. 2. — A) Bande pour supporter un membre lorsqu'il est fixé dans une attelle.

- B) Bandes d'extension en finette à coller sur le membre.
- C) Support pour empêcher la chute du pied: la partie centrale, plus large, est placée à la plante du pied; les parties ombrées sont en tissu élastique.
- D) Guêtre pour l'extension lorsque les bandes adhésives ne peuvent pas être employées.



B) La même attelle rembourrée, avec pièce transversale munie de boucles.

Détails de la pièce transversale,
Di Attelle de Hodgens.

2) Cadre en fer pour la suspension de l'avant-bras.



MULTENESON EXTENSION ABOVETION ROVISION -Abduction board as shown is placed between spring and mattress & held in place by pt.'s wgt.

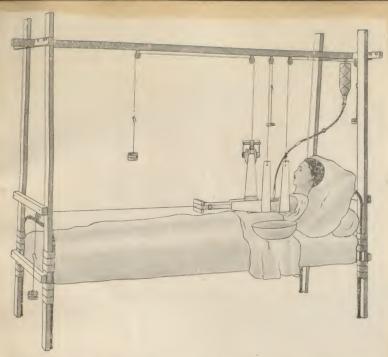
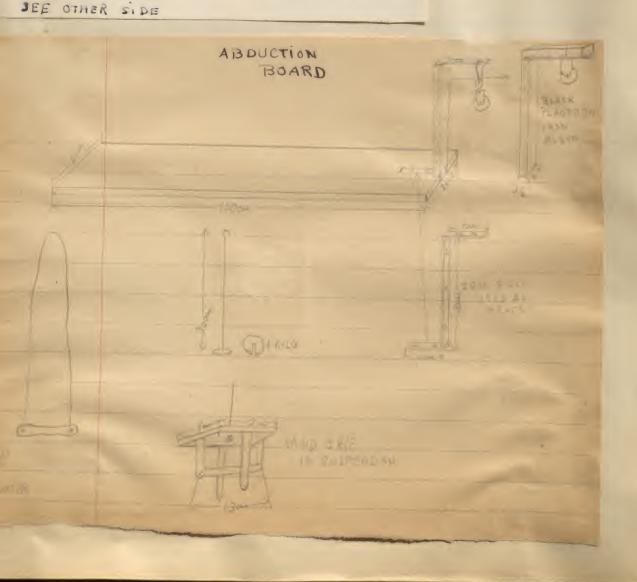
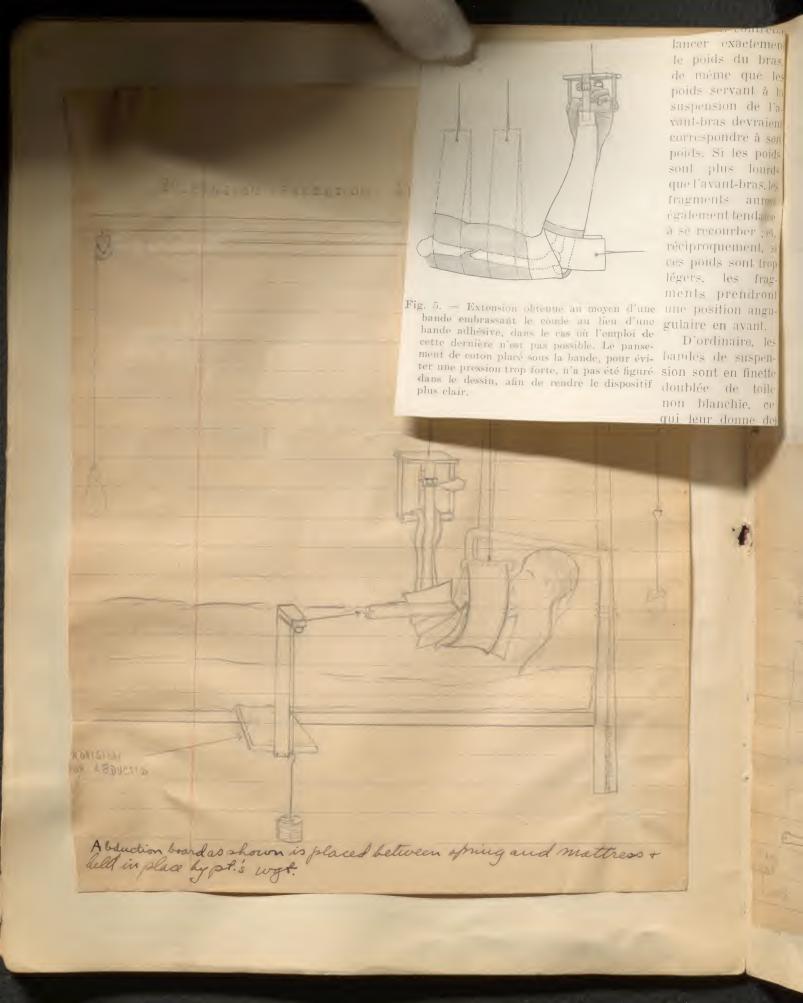


Fig. 4. — Fracture de l'humérus. Les bandes de suspension du bras

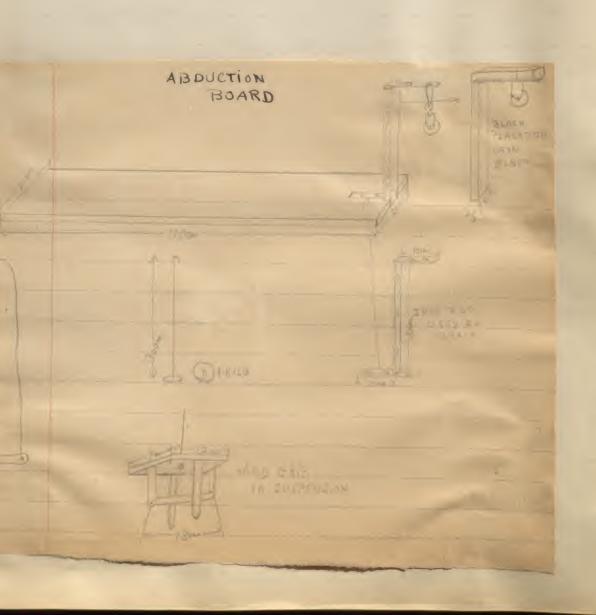
sont en place. Application de l'irrigation continue.

Extension of humerus is band or Barley Caldwell strap not by glue as shown here.





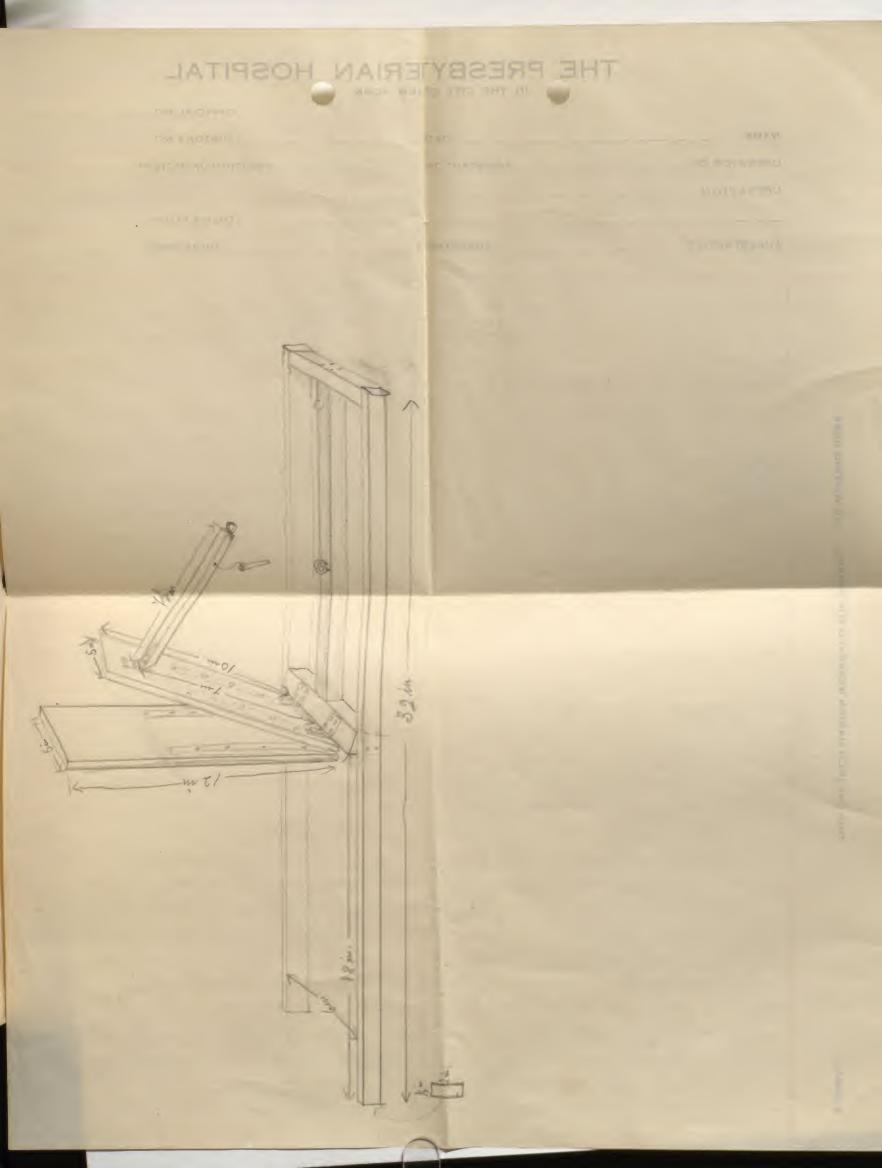
Extension of humerus is obtained by means of Hennegan band or Barley Caldwell strap not by glue as shown here.



6

BUSPINSION EXTENSION AR DUCTION HONESTEN

Abduction board as shown is placed between spring and mattress + held in place by pt.'s wat.



THE PRESBYTERIAN HOSPITAL

OFFICIAL NO ... NAME.... DATE HISTORY NO. OPERATOR DR. ASSISTANT DR. POSITION OF PATIENT OPERATION. DURATION, ANAESTHETIST ANAESTHESA DURATION

NO WRITING HERE.

THIS ONE INCH MARGIN RESERVED FOR BINDING.























de tarla plátré p bande de en forme après av geur, on Il y a donc lieu, par consequent, de la modifier pour chaque cas. Ainsi qu'il a déjà été exposé il faut radiographier chaque fracture, au lit même du blessé, après que la réduction clinique en a à propos des fractures du membre supérieur, été obtenue, ayant toujours pour objectif l'alignement des deux fragments sur le même axe.

est impos Il est évi C'est là, Pour le traitement des fractures du fémur, on peut obtenir la traction de trois façons diffé-

blable pr 1º Par bandes collées;

2º Par traction exercée directement sur le

de la cuis squelette, comme par exemple avec la broche de Steinman on la Lande de l'innehatto.





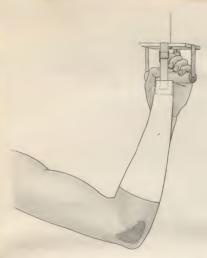


Fig. 6. — Détail de la suspension du bras pour plaies impliquant l'articulation du coude, montrant l'application des bandes adhésives sur l'avant-bras, et la poignée pour les doigts. Cette poignée est suspendue à la planchette par des bandes d'élastique et la tension de celles-ci est déterminée soit en raccourcissant, soit en allongeant les bandes adhésives au moyen de boucles.

moyenne, elles sont larg de 30 cms. pour l'avant-l la cuisse.

Les bouts étroits des b et fixés avec des épingle facilement ajuster le sur

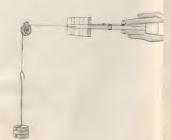
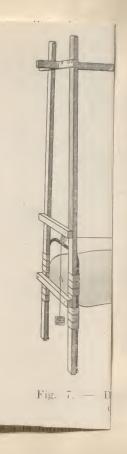


Fig. S. — Détail de l'app

de faire de l'irrigation co on peut employer une seu



See Case + justine - p. 33.

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should be maintained.



moyenne, elles sont larges au milieu de 12 cms. et longues de 30 cms. pour l'avant-bras et la jambe, et de 45 cms. pour la cuisse.

Les bouts étroits des bandes sont passés autour des barres et fixés avec des épingles de sûreté de manière à pouvoir facilement ajuster le support du membre. Lorsqu'il y a lieu

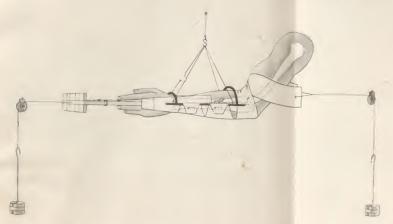


Fig. 8. — Détail de l'appareil d'extension et de suspension pour fractures de l'avant-bras,

de faire de l'irrigation continue ou des pansements humides, on peut employer une seule bande de toile caoutchoulée dont le la language deurs engrespondre à la Janguage.

See Care + sicture - p. 33.

Extension is

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Fig. 12. — Utilisation de l'attelle droite et méthode de traction. Noter la disposition du cadre situé au pied du lit, l'abduction prononcée du membre, l'angle de la grande barre supportant le membre et ayant presque la même direction que loi, ainsi que la méthode du tourniquet pour obtenir la traction du membre dans l'attelle. — Remarquer également la bande plantaire destinée à éviter la chute du pied.

té avec la dans leur

^{1.} BLAKE. — Arch de Med. et de Pharmacie militaires, Paris, 1916, LXVI, 57.

rnière sont cloués deux morceaux e ruban élastique. Aux deux bouts ures de ces élastiques est fixée une aguette ronde en bois. Elle doit être ajustée de lle sorte que les doigts étendus puissent la sair, afin de faire quelques exercices, mettant en jeu élasticité des rubans. Ce dispositif est important, a particulier dans les lésions du nerf radial.

La corde de suspension de l'avant-bras monte lors et va passer dans une poulie fixée à l'une es barres longitudinales situées au-dessus du t. Cette barre, spéciale à l'avant-bras, est placée 20 cm. (ou plus) en dehors de la barre servant

la suspension directe du bras (fig. 6). On butient par ce moyen la rotation externe du ragment inférieur, résultat qui serait difficile à icquérir si le bras et l'avant-bras étaient tous deux fixés sur un même axe longitudinal.

La poulie soutenant l'avant-bras est placée, d'ordinaire, suffisamment loin dans la direction du pied du lit, pour donner au coude un angle d'ouverture de 135° environ. Dans la suite, cet angle peut être ramené à 90°; mais un angle assez ouvert, donné dès le début, permet plus tacilement la traction.

Si la traction est nécessaire, elle peut être obtenue de deux façons différentes :

a) L'emploi des bandes collées sur chaque face latérale du bras est très efficace et donne une onne traction du fragment osseux inférieur (fig. 5). Egalement dans ce cas, on se sert d'une planchette de traction, dépassant de 2 cm. la largeur du coude, afin d'éviter la pression laté-

dans l'axe de le cas de bler placer une a pansement e extension pro suffisante po l'humérus. P faut encourag les articulation et des doigts devront être

La question sera exposée chaque fractu

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1° Fracture résections de

2º Fracture 3º Fracture résections du

y compris

Les fracture être traitées a la suite des r faut pas emp doit pas cher tations radiologiques recueillies au lit même du blessé.

Dans les fractures du tiers supérieur de la diaphyse humérale, en dessous du col chirurgical de l'humérus, la traction est en général nécessaire, mais dépasse rarement 2 kilogr. Elle peut être faite à l'aide de bandes collées. Quant à la suspension, on l'établit comme à l'ordinaire.

Les indications de l'abduction à donner au membre seront fournies par l'importance des lésions musculaires reconnues. En effet, si les in-

d'interrompre la traction deux fois par jour, afin de pouvoir pratiquer la mobilisation active et passive des petites articulations des doigts. La supination extrême est rarement nécessaire. Un degre un peu moindre suffit à empêcher l'union entre les deux os de l'avant-bras.

Dans les cas d'ædème considèrable, il est parfois utile

nt-bras en posià l'aide du gant, des collées. at des blessures toutes les fracde l'armee decrite par

La parti faire press nières, aux parallèles

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1º Fracture résections de

2º Fracture 3º Fracture résections du

y compris

Les fracture être traitées a la suite des r faut pas emp doit pas cher que l'on puisse attendre de cette intervention c'est l'ankylose, bién que ce soit très souvent le « bras en fléau » que l'on observe. on obtient une très bonne traction en se servant d'un gant, ainsi que le montre la figure 10. La main

du genou peut être modifié métallique pour suspensi page 656.)

est d'abord copieusement enduite de colle, puis recouverte d'un gant de coton blane, portant à l'extrémité de chacun des doigts un petit anneau métallique. La traction est faite par l'intermédiaire des doigts et demande un poids de 1 kilogr. 1/2 environ.

Il faut prendre grand soin d'interrompre la traction deux fois par jour, afin de pouvoir pratiquer la mobilisation active et passive des petites articulations des doigts. La supination extrême est rarement nécessaire. Un degré un peu moindre suffit à empêcher l'union entre les deux os de l'avant-bras.

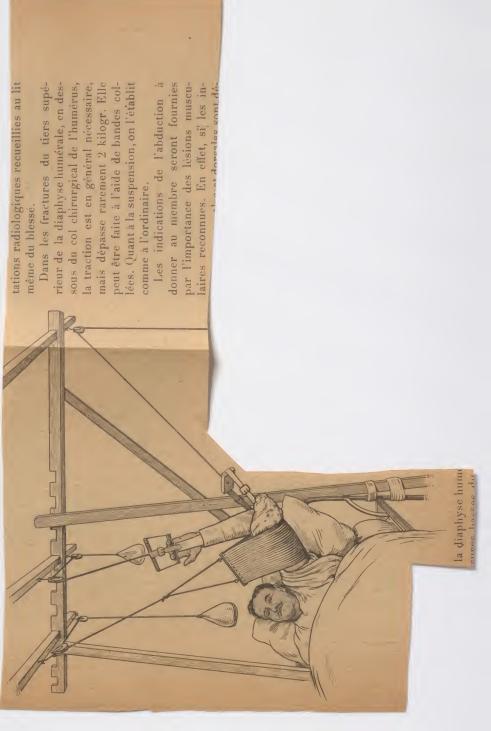
Dans les eas d'œdême considérable, il est parfois utile causes les

Toutes le qu'elles si figure 11, d'attelles h de chacune tement de ticulier. L' de cette p apportée pa de l'armée décrite par

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Ce dispo remment p gauche. A sont unies non rectilig tion de la re à so partie

nt-bras en posià l'aide du gant, des collées. at des blessures toutes les frac-





ruites, il y aura lieu de donner plus L'abduction au membre que si ces in-D'une manière générale ces fractures parvient très simplement ainsi qu'il demandent une abduction de 60". On ertions étaient conservées. st indique figure 7



ig. 7. — Méthode simple permettant d'obtenir l'abduction et la traction du bras à l'aide d'une planche non rabotée, glissée entre le matelas et le sommier, et muintenue en place par le poids même du blessé. (Voir le texte « Humérus », tiers supérieur.)

il est donc préférable de ne pas la couper.

Chaque montant vertical mesure 2 mètres de hauteur. La longueur des barres transversales dépend de la largeur du lit employé. Pour les lits du Service de Santé, la barre supérieure mesure 1 mètre, et la barre inférieure 75 cm.

obtenu; de plus, pour le traitement de la blessure elle-même, on acquiert ainsi toutes les plus grandes facilités.

Par cette méthode, soigneusement contrôlée par l'examen radiologique pratiqué au lit même du blessé, on obtient sans peine l'alignement parfait des fragments osseux.

L'appareil de suspension consiste en deux sortes de cadres (un à chaque extrémité du lit du blessé) reliés l'un à l'autre au-dessus de ce lit par deux, ou même plusieurs longues barres parallèles et longitudinales.

Chaque cadre est constitué par deux montants réunis entre cux par deux barres transversales. La barre inférieure est placée au niveau du bord supérieur du matelas. La barre supérieure est fixée très haut sur le montant, pas trop haut toutefois, afin de ne pas fendre le bois en plaçant les vis. Cette barre transversale supérieure est munie, à sa partie supérieure, d'encoches destinées à recevoir les grandes barres longitudinales.

nt, et parres r être ransail de

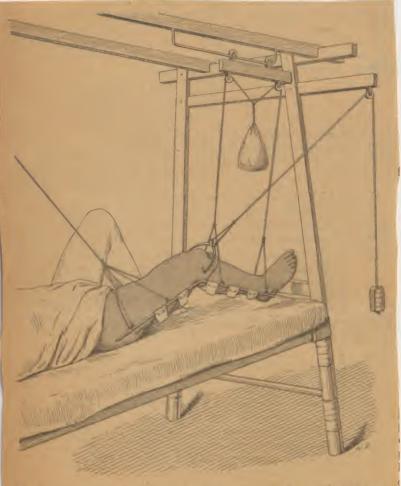


Fig. 11. — Dispositif pour fracture du tiers supérieur du fémur, on a été employée la broche de Steinman Noter la flexion du genou, l'abduction et la rotation externe du membre.

La bande plantaire contre la chute du pied n'a pas été figurée ici, pour plus de clarté du dessin (Voir le texte page 657.)



le jambe. L'attelle est courbée à 135° envimilieu, est représentée comme attachée trophauteur du genou, environ, on parvient à exte page 658.)

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FRACTURES DU TIBIA ET DU PÉRONÉ.

Toutes les plaies et fractures de la jambe se guérissent beaucoup plus vite, si le membre esté mis en suspension. C'est là une règle générale. Pour cela, on se sert d'une attelle de Hodgens courbée à 135°, disposée ainsi que le montre la figure 14. La jambe placée au milieu de l'attelle repose sur les bandes ordinaires (v. fig. 4). L'appareil est suspendu par le trolley précédemment décrit. La contre-extension est obtenue par l'in-

début de la réunion des fragments. Le siège de la fracture est encore fibreux et flexible. On retire alors l'attelle droite, pour la remplacer par une attelle de Hodgens courbée à 140° environ. Lorsque le membre est fléchi dans cette attelle, le mouvement

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Dispositif de suspension pour fracture merus. Remarquer l'usage de trois barres longitules, la plus externe des trois servant à soutenir nt-bras, en maintenant le fragment inférieur de serus en rotation externe. (Se reporter au texte merus », observations générales.)



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Fig. 6. — Dispositif de suspension pour fracture d'humerus. Remarquer l'usage de trois barres longitudinales, la plus externe des trois servant à soutenir l'avant-bras, en maintenant le fragment inférieur de l'humérus en rotation externe. (Se reporter au texte « Humérus », observations générales.)

dans le berceau pour avant-bras. Elles sont faites de deux épaisseurs de mousseline non blanchie. Elles existent en deux dimensions, les plus petites mesurant 40×12 cm. et les plus grandes 60×20 cm. Avec les pansements humides, on utilise des bandes semblables en tissu caoutchouté, double face.

B, Forme des bandes de traction à coller sur la peau. Elles se font en finette en deux dimensions : Petite taille pour l'avant-bras et la plante du pied,

 25×8 , non compris les rubans. Grande taille

pour la jambe, 40×15 .

trolley (fig. 3) consistant en une tringle de fer sur laquelle vient glisser, à l'aide

de poulies, une pièce de bois.

Cette tige de fer a 10 mm. de diamètre, et 90 cm. de longueur. L'une de ses extrémites est courbée deux fois à angle droit, en forme de baïonnette. Elle est destinée à être fixée par quelques tours de bande de toile à l'une des barres longitudinales, après que l'autre extrémité rectiligne a été engagée dans un trou percé dans une pièce de fer recourbée à angle droit et vissée elle-même à la barre longitudinale.

A cette tige est suspendue, par l'intermédiaire de deux poulies, une barre de bois de 40 cm. de longueur environ; ces deux poulies, destinées à rouler sur la tringle, sont fixées à la face supérieure de cette pièce de bois, alors que la face inférieure porte trois poulies pour la suspension du membre. On peut employer, soit des poulies à crochet, soit des poulies à vis. Ce dernier modèle nous semble être plus facilement ajustable.

Les poids sont ordinairement de 500 gr. Touefois pour un réglage précis, et lorsque les poids



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A cette tige est suspendue, par l'intermédiaire de deux poulies, une barre de bois de 40 cm. de longueur environ; ces deux poulies, destinées à rouler sur la tringle, sont fixées à la face supérieure de cette piece de bois, alors que la face inférieure porte trois poulies pour la suspension du membre. On peut employer, soit des poulies à crochet, soit des poulies à vis. Ce dernier modèle nous semble être plus facilement ajustable.

Les poids sont ordinairement de 500 gr. Touefois pour un réglage précis, et lorsque les poids



moyenne, elles sont lars de 30 cms. pour l'avant-

Les bouts étroite de et fixés avec de: facilement ajuste



Fig. 8. — Détail de

de faire de l'irrigati on peut employer ui woone dayes car







puis a auchure le début de la réunion des fragments. Le

chetto. I

deux épaisseurs de mousseline non blanchie. Elles existent en deux dimensions, les plus petites mesurant 40×12 cm. et les plus grandes 60×20 cm. Avec les pansements humides, on utilise des bandes semblables en tissu caoutchouté, double face.

B, Forme des bandes de traction à coller sur la peau. Elles se font en finette en deux dimensions : Petite taille pour l'avant-bras et la plante du pied, 25 × 8, non compris les rubans. Grande taille

pour la jambe, 40×15 .

milieu, est repaésen hauteur 'du genou,exte page 658.) on de la de fle

être em-

kilogr.

e et dé-

la partie

1 l'autre

quin ne

la posi-

l'abduc-

nsertion

à peine

en rota-

vant que

oche de

venu

le jambe. L'attelle

trolley (fig. 3) consistant en une tringle de fer sur laquelle vient glisser, à l'aide de poulies, une pièce de bois.

ments Cette tige de ser a 10 mm. de diamètre, enrou et 90 cm. de longueur. L'une de ses extrémites maint est courbée deux fois à angle droit, en sorme de lac de baïonnette. Elle est destinée à être fixée par un bo quelques tours de bande de toile à l'une des barres tion longitudinales, après que l'autre extrémité recmuscl tiligne a été engagée dans un trou percé dans une étirés pièce de ser recourbée à angle droit et vissée corrigelle-même à la barre longitudinale.

A cette tige est suspendue, par l'intermédiaire FRAC de deux poulies, une barre de bois de 40 cm. de

Tot longueur environ; ces deux poulies, destinées à la jam rouler sur la tringle, sont fixées à la face supévite, rieure de cette pièce de bois, alors que la face pensicinférieure porte trois poulies pour la suspension Pour du membre. On peut employer, soit des poulies à de Hoterochet, soit des poulies à vis. Ce dernier modèle ainsi enous semble être plus facilement ajustable.

Les poids sont ordinairement de 500 gr. Toureposetefois pour un réglage précis, et lorsque les poids v. fig.

le troll contre-

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t utilisé

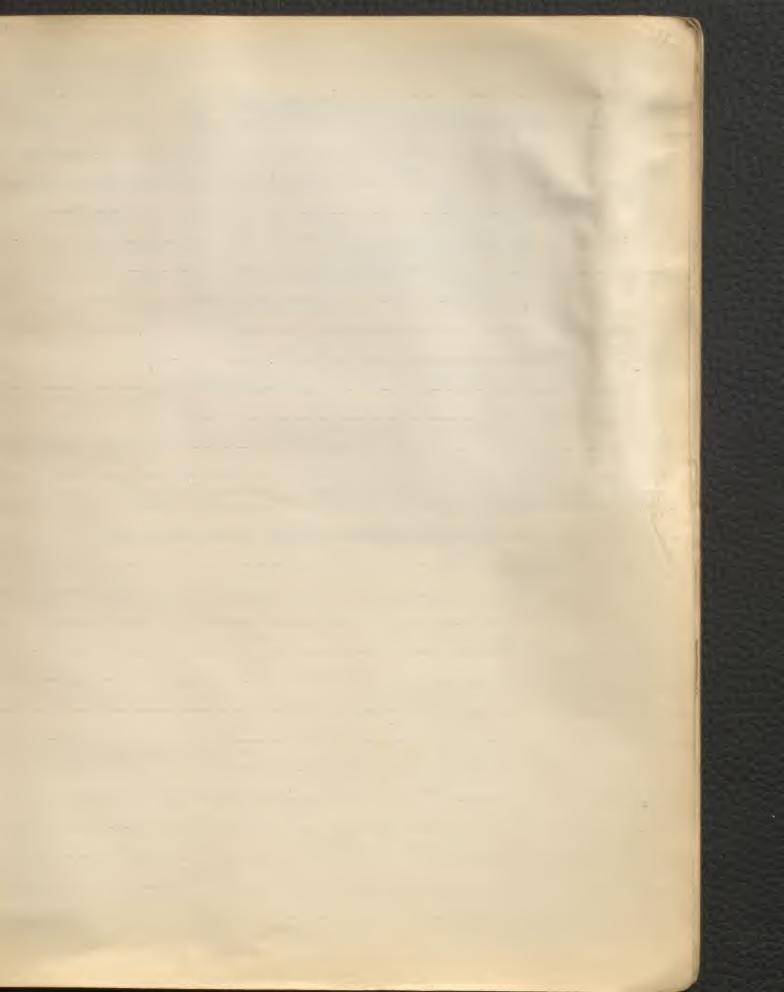




Fig. 10. — Traitement d'une fracture de la partie inférieure du fémur

au moyen d'une forme modifiée de l'attelle de Thomas. See over. For illustrative Cases see pp. 36,37,38,39,40.

I procture is high the leg is put up in abduction to follow superior prognent out.

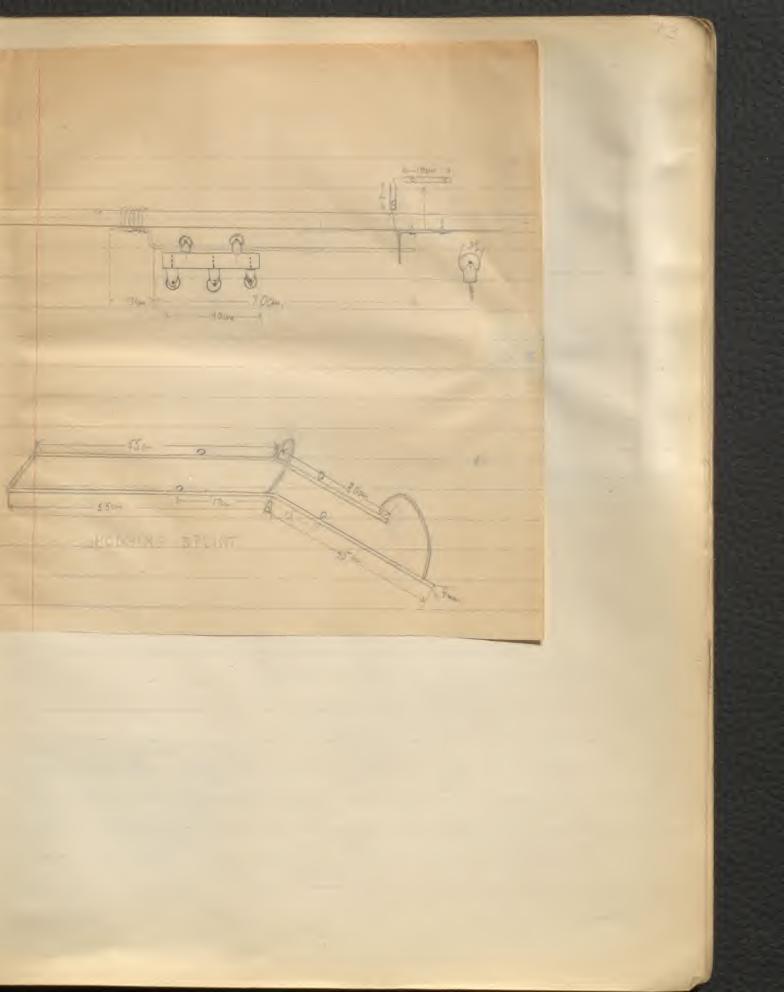




Fig. 12. — Dispos de l'appareil pour le traitement de fractures du tibia et du roné. — Le dessinateur a oublié d'indiquer la planchette d'écement des bandes d'extension.

See over



apparatus for correction of toe drop and exercise of leg muscles.

Attachment dis made to the foot of the bed by means of a cord.

Besistance to the movements of the foot is made by means of a kinge of ring, the intensity of which pressers may be regulated by advancing the prop(A).

When this apparatus was afflied to patient shown in siction he had no control of movement at the autile dece to discess. In two weeks a certain degree of to voluntary motion had returned.

Apparatus for Correction of Loe drop

Hinged foot peods piece is drown

upward by clastic. The whoe

is wired to a posterior moulded

plaster officiet extending from

below the succe to the suche.

The flaster afficiet was made on

a heavy shire from and

small series in corporated which

were after ward fastened to the

legalisees of the apparatus.

The petient walked on creekles

were feel pertoone west. on foot.

courses som resserves dans n exercée sur l'extrémité inférieure de té tension est obtenue par la pression de Fig. 13. — Détails d'application de la guêtre p la bande adhésive pour empêcher la chite d la bande adhésive pour empêcher la chite d sement de coton place sous la guêtre n'a p dessin afin de rendre le dispositif plus clair

de l'appareil contre l'ischion. L'attelle el le membre supporté par les bandes pad'une barre à l'autre, on peut le porter dandirection sans déranger la position relative



apparatus for correction of toe drop and exercise of leg muscles.

Attachment dis made to the foot of the bed by means of a cord.

Besistance to the movements of the foot is made by means of a kinge opring, the intensity of which pressers may be regulated by advancing the prop(A).

When this ofparatus was afflied to patient shown in picture he lead no control of movement at the außle dece to discess. In two weeks a certain degree of so voluntary motion had returned.

Apparatus for Correction of Loe drop

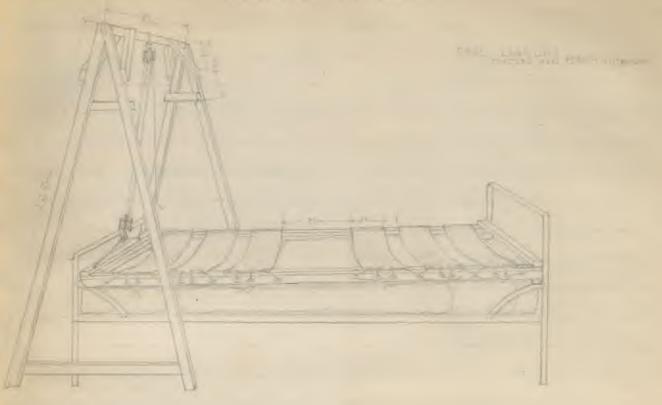
Hinged foot peace piece is drawn
upward by elastic. The whoe
is wired to a posterior moulded
plaster office t extending from
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The plaster officit was made on
a heavy stire from and end
small series in corporated which
were often ward fastered to the
legalizes of the apparatus.
The policet work on creekly





For case sue pp. 30,31.

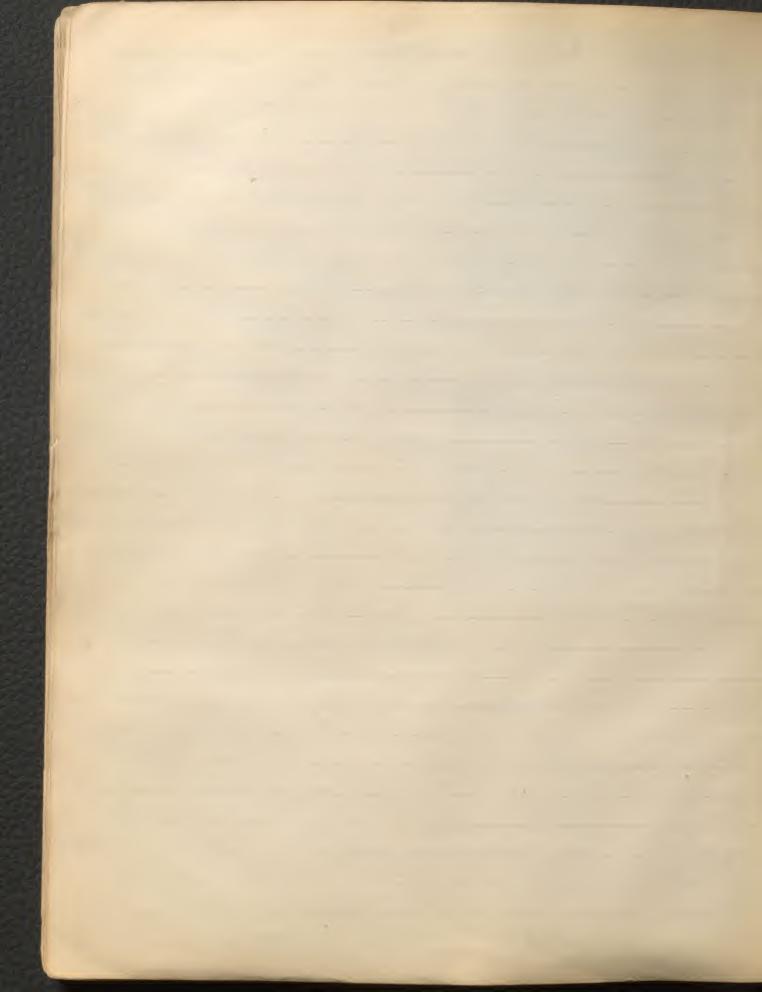
ELEVATING APPARATUS



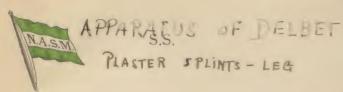




I want over the name of



Dr. allison.



Layers of crinolin 10 picces thick + folded over rather than out.

the rount

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+ Eaptain Illians. They

reported that The court men.

working, who had broken itsels

+ tikis, three days after the

application of the plaster +

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for 3 months with out a bed one

apprearing.

Laprareillage dons

Selet none Probe of Delkley - (asused by him in M.4.) apparatus - Two ear pieces like wireless receiver - Each contains an electromagnet of would with fine wiae (opper) of 1500 olives resistance making 3000 ohus. Judifferent electrode - rod of carbon to be placed in mouth, rectien, on vagina (Thisoborates skin resistance). Other electrode large serving needle shelaced up to within & cu. of pourt. (Probe may be seedstituted) In passing electrode into flish or wound the contact with tessues gives a little click. In touching metal (including lead me hears a rosping sound plainly. Take care next to be near a large dynamo or mognet of trong & not on iron Dr. Bulkly finds the same mestrumst with 1200 olius resistance (in all) is most satisfactory arthis gives us click in meeting tessue beet only metal. Ylue Lindait. Insistency is obtained. Before use it must by be heated. The principle advantage of this glace over heusmers is that there is no necessity to shave the pa and it comes off è water. It is more messy however and I find in less outing a clory.

Solutions in use for 1. Braphthol B	Dreslings - Dr. Blake	1
So Raphens	d. Hydroxide	
H	20 1000	
		gu:ce
2. quinine	ha of	& word mely
9	Principe Hydrochloride Ma el	1000 Junto selte
		grance PE P.
3. Lodeim Brearb.	Lodeim becarb.	10 07 40
	nacl H20	1300
4. Cectic	Rectic acid (9090)	5
	ha el	8
	H 20	
Combine two above	much used acc	tic & quesinine.
combine two above	formulas making	same strengthie
fourthe I gm. acetic office	o. Nacx 8.	
5. Carrel Modefication	of Dakins Solute	on - Daufresne Formula
5. Carrel Modefication Preparation of rame of Method surployed a W Carately weigh.	selow.	
mitted suployed a	* Carrel Hospital C	supergue.) quice
10 Caraley weigh.	Dried Carbonston Sad	200 200 a Razella 100 200
	Biserbonate " "	a /14200
(2) Place Chloride of Sin	town of the sold of	and shake
service mere, or me	account to slave	over wegut.

Leles none Probe of Dr. Bulkley - (asused by him in M.4.) Apparatus - Two earpieces like wireless receiver - Each contains an electromagnet of would with fine wise (opper) of 1500 ohus resistance making 3000 ohims. Quelifferent electrode - rod of carbon to be placed in mouth, rection, of vagina (Thisoborates skin resistance). Other electrode large sewing needle shelaced up to within & cur. of point. Probe may be seedstituted) On passing electrode into flesh or wound the contact with tessues gives a little click. On touching metal including lead one hears a rapping sound plainly. Take care next to De near a large depramo or moquet of into 8 not on ison Dr. Bulkley finds the sauce nestrument with 1200 olius resistance (in all) is most satisfactory arthis gives us click in meeting tissue best only metal. Glece Lenclait. GLUE No 2 Water.....200 m Clycerine..... Calcium chloride...... Thymol..... above is I gelieve what D. Bin Plais uses in histreatment of fractures. It must be brilled in Assella brilles till deserved meisturey is oftained. Before use it must by be leated. The principle advantage of this gless over Tecesmen's is that there is no necessity to show the and I find a less astingactory.

Solutions in use for	3. raphthol	-	
	Sod. Hydroxide 1 H20 1000		
	H ₂ O 1000		
2. quinine	Quin ine Hydrochloride	guirce	
	mall	8 (with and t:	
	Quin ine Hydrochloride Ma el H20	1000 Just actic	
3. Lodeim Becarb.	Lodein becarb.	10 07 40	
	nacl	78	
	2,0	1800	
2 4	2 - 16		
4. Cectic	Raclic acid (9090)	5	
	hall	8	
	H20	1000.	
1 To a for the state of the sta			
2000 hise two abo	de torumas de la fina	sec & quinci.	
combine two above formulas making some strength is			
Junine Igm. acetic of			
5. Carrel Modefical	at Carrel Aspital Calloride of lines (Calloride of lines (Calloride of Sand	- Daufresne formul	
Preparation of sauce	e below.		
method suployed	at Carrel Hospital C	rupiegne.) que	
() I curately weigh.	Chloride of line (Cal	200	
V	Dried Carbonston Sad	a hosely 100	
	Bicarbonati " "	Ratt Co. 80	
8. 5. 9		ordinary	
(2) Place Chloride of & week	intervals + allow to stone	I wale and shake	
several tures, at.	cutervals + allow to stance	lover rught.	

(3) De isolve the Carbonate + Bicarbonate of soda in 5 S. of ordinary cold water 4) Leverall the solution of soda salt suto the bottle of Obloride of lune. Shake vigorously i nin . + allow to stand to allow parbonate of line to settle to the bottom 5) In about a hour sephon of the clear lequid and filter thru felter paper in order to oftale a perfect clear toger solution. This should be kept in a dark place. I (were solution is placed in large glack beed from time to time is stired up and poured into vessel where it a la part auties out and fluid is taken off from surface without feltering gadreps of ot permanganate is put in bettle before acuditing to ward. Solution is now really for decracion use. It contains about 12 of a Sodium Hypochlorite with omall quantity of the neutral salts of sodain. It is markedly isotoric to blood serum. 2 sec. sol. in beaker. Few centigrams powdered Phenol sulphopulhakin. Shake - Liquid should remain slear t colorless. Red linge indicales on appreciable ant. of free alkalion and in complete reaction with the contounts sharped, to some fault in the Atechnique of preparation

Standardization of volution. 10 ec. sot. 1 Sec. distilled water 2 guis. KJ. La aceticació Pour into this solution a decenounal (2.4844) solution of hyposlelphite of soda in quantity just auffectent to decolorize it. If M. be the number of ac. of tryposuffel used. The percentage of hypochlorite in the solution will be given by the quation: 10 = 11 x 0.03725 When complete add wough PH. percent you states whor pale minur. 1 to be avoided. never heat the solution If, in an emergency it is necessary to use a morter to prepare the chloride of live. Do not use anything birth it but water. never add soda salt. Ca (do) + Maz Co3 = Ca Co3 + 2 900 cl Ca 02 + na, cl3 = Ca Co3 + 2 na el

B. J. P. - Laucet aug 12, 1916 Ruther ford Morrison - bips Procederre. (1) lender anaesthetic cover wound with gauge wrung out in 1-20 Carbolic - Clean skin & same. (2) Open wound freely+ inspect Cleanse cavity with dry sterile gauge, Valkmanns spoon etc. + remove 7Bs. (3) Mos surrounding skin + wound cavity with methylated Ofrita Cotton wood on forceps.) (4) Fellup the whole wound with paste described below, dress with sterile gauge + cover with padabsorbent & bundage. no change of dressing required for days or weeks wiles pain or constitutional disturbance appear. It dis margo comes through the stained st. must be soaked in spirit and a gause dressing wring out in the varue be applied as a further tressing covering. advantages are subst striking in cases of Compound fractier of long bones. Redressing - Removed old dressing, cover wound with a dossil of wool soaked in spirit and wife off discharge from skin & wool & spirit. Plaster wound and mal alea secrrous deing skin with paste, cover & gange vad+ bandage. fresh. Where there is danger of gangrens be advised Leaving the wound will ober't filled & Bepp Mich of the ripp is dis charged + a small seines forms which in majority of eases earsquickly. "In the majorety Plases The miss appears to live sidwly absorbed. 10 cases breaked without enauging a dressing unexpectedly

She paste - Biff.

Bus muth subnitrate 103. by wgt.

Lodoforus

Lig. paraffin 4.8. to make othick paste

application with two eggsprons.

Bipp- used at 6 our Piccini by Dr. & buel.
(1) Lorge imporphicial wound of L. buttock - excellent condition

Bacterial count felt to 8 in a field wich singation

by Dakins.

Wound emeared with Bipp and to absed. Edgesnot

free bened. Result - brown thick discharge continued

to be enabled for some time. Is of ration lines held. Is

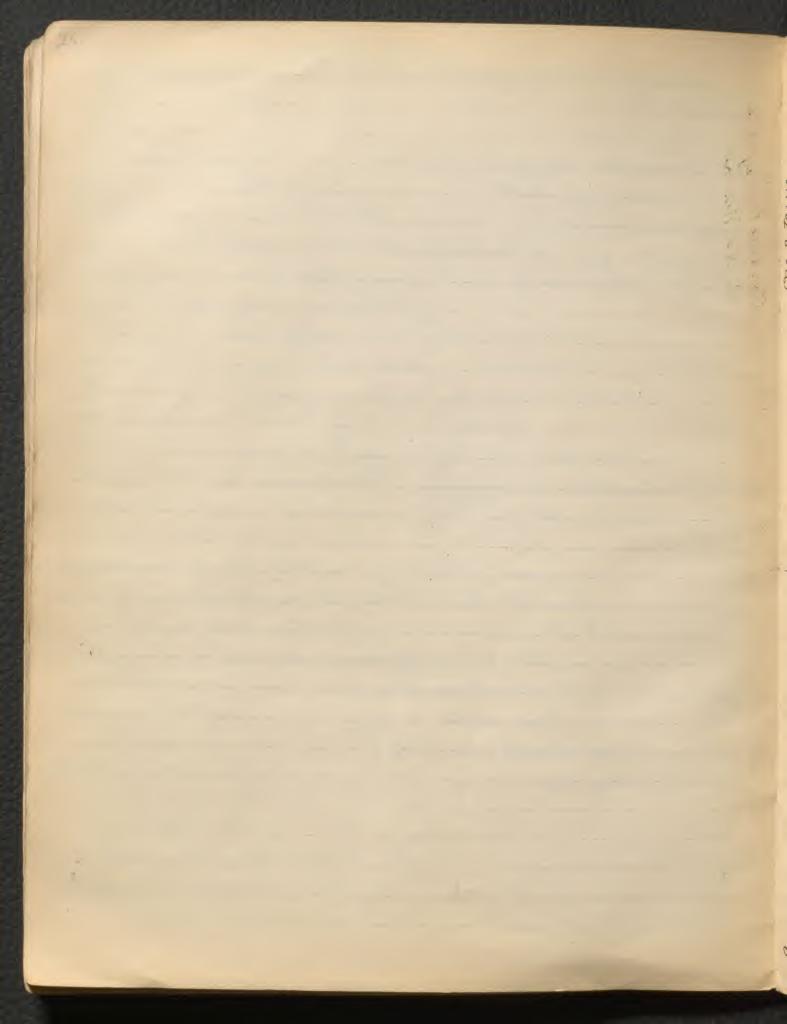
appel undafter a seriod of browne lines held. Is

was a sums under the secture line. Decopering

this along the line with a pair of a ceissors of ound
a very thick bard cicatric which showed no signs

of softening agehouse after repeated curettings when

2)+(3) Two stimps were altered, flats being brought down and rectured after application of Ripp.

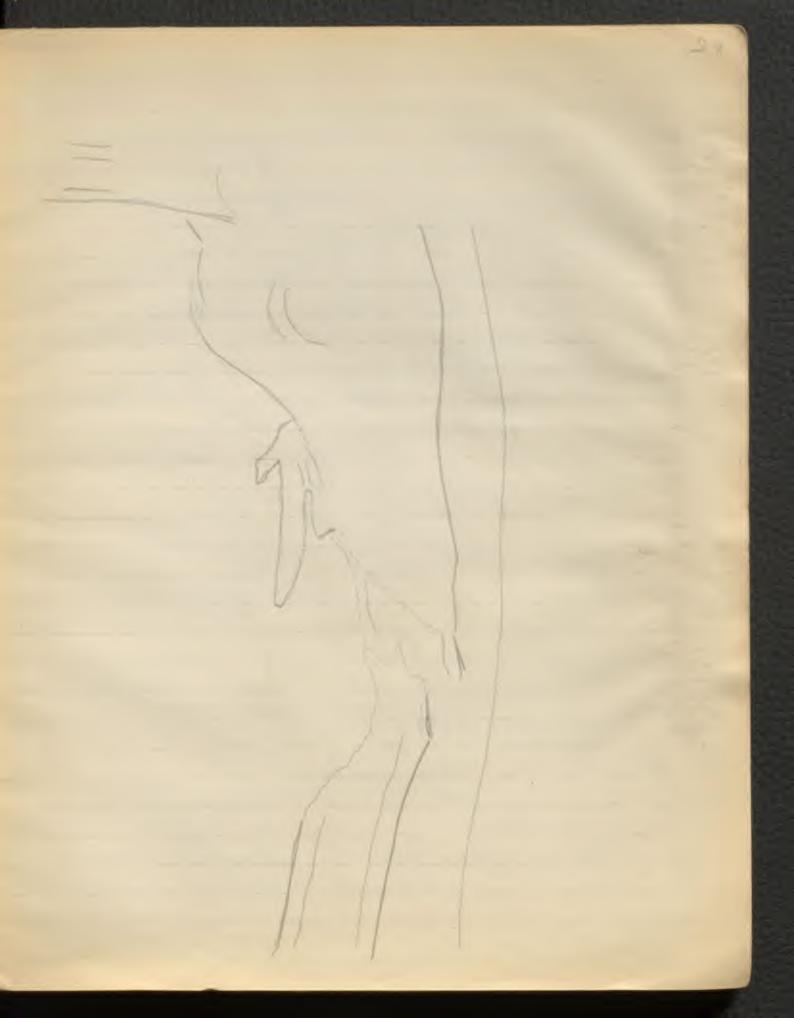


Canaut may 10/9/7. Right Humanis. On Entrance \$ B. removed. Reported bone pregnents attached to vone - followed by week high Emperation gue, guly august - occasional exocontrain of heurperston no iluin Any if maches bushes hard inger range ranges on the page. In it wish was through posterior wound. There followed may 10. admitted - x ray taken. Wound poster lateral large open May 7. - debidement, esquillectory + disinfection Sept 13. Incision of aboveso philoting intermely grussles were very hard+ injitraled Carrol tubes placed internally and Canaut. - wound may 6 gun 1

Successioners very hard+ injituals and extended. The wore jugaments chown in knew grayments chown in knew grayments chown wolide, attached + hew a left but were rolide, attached + hew a left. The wolld, attached + hew left hounds grammatical over. Beginning

mr. 3. Our taken down - exectedation.

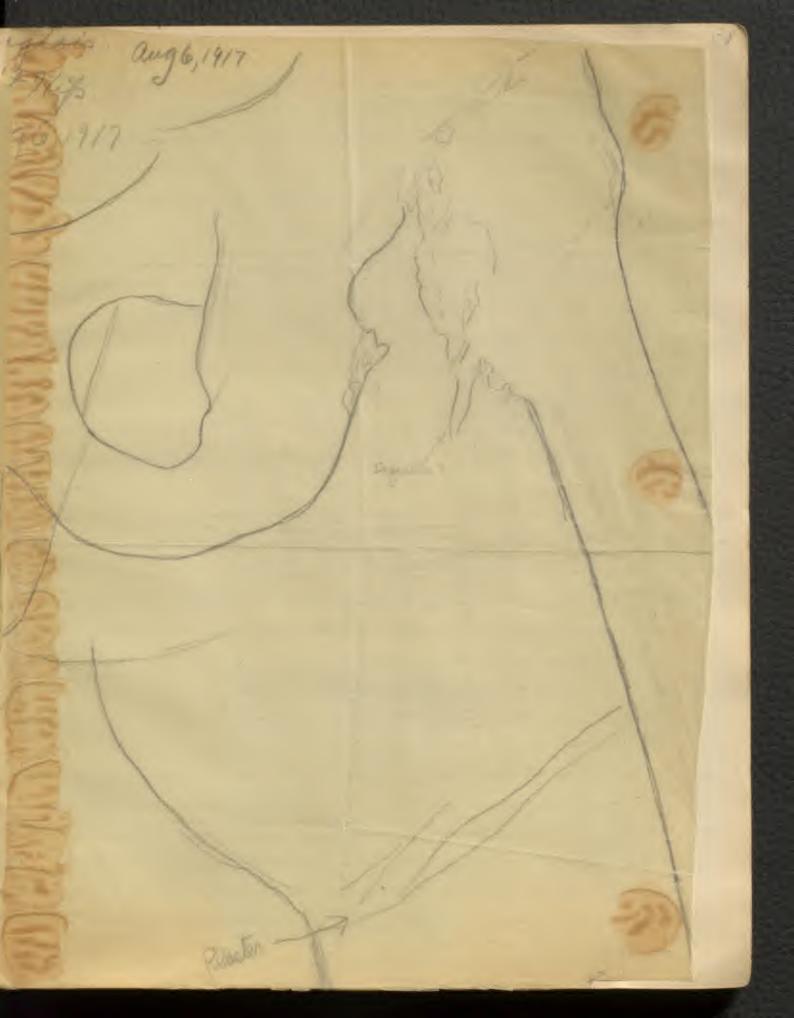
Dequestra 1, 2, 4 17, 1919



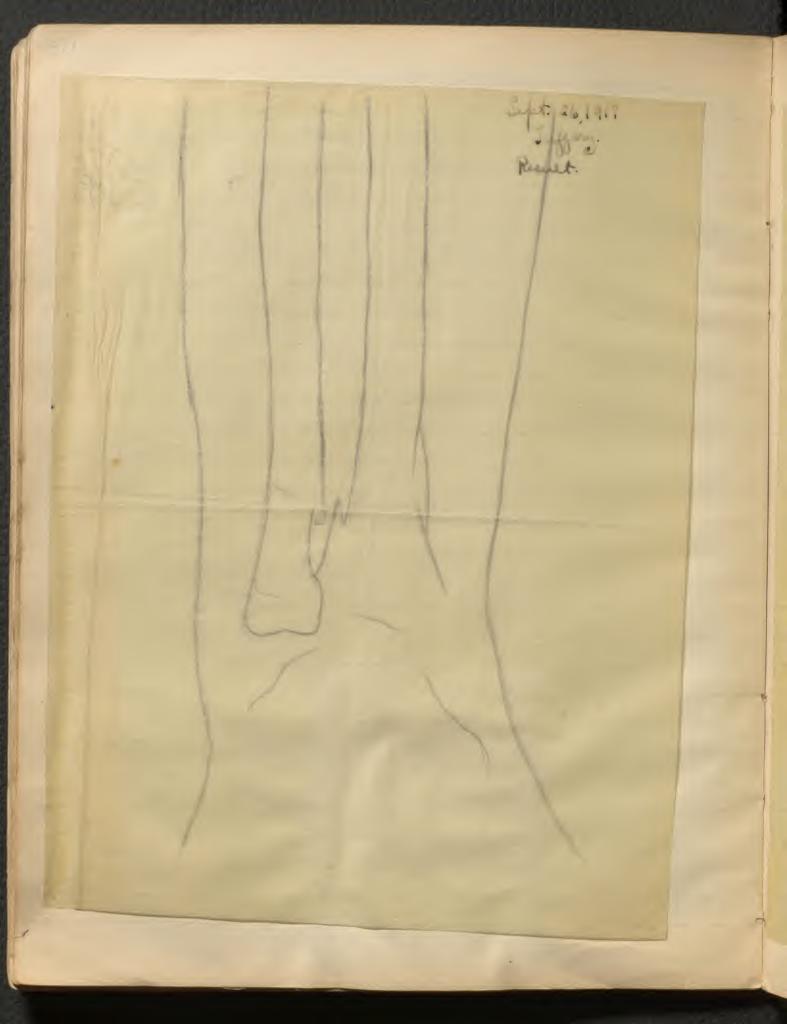
Langlois # 70. - Fracture of L. unoncinate fore & head began the special to the second to the secon Mound- March 2. 1916 - ader. May 26. Derstein - Tryle +. B. Extracted, 9/2 2/16. Beselving heady famous followed by suspension - extension, 1.7/10. Opposites when up no no consolidation, 17/17 formation of new excetataling followed by Obduction in a plaster caste, 1/2 5/17- Ud. sufected, Drawn replacement in actualor followed by place is abduction + remaind rotation

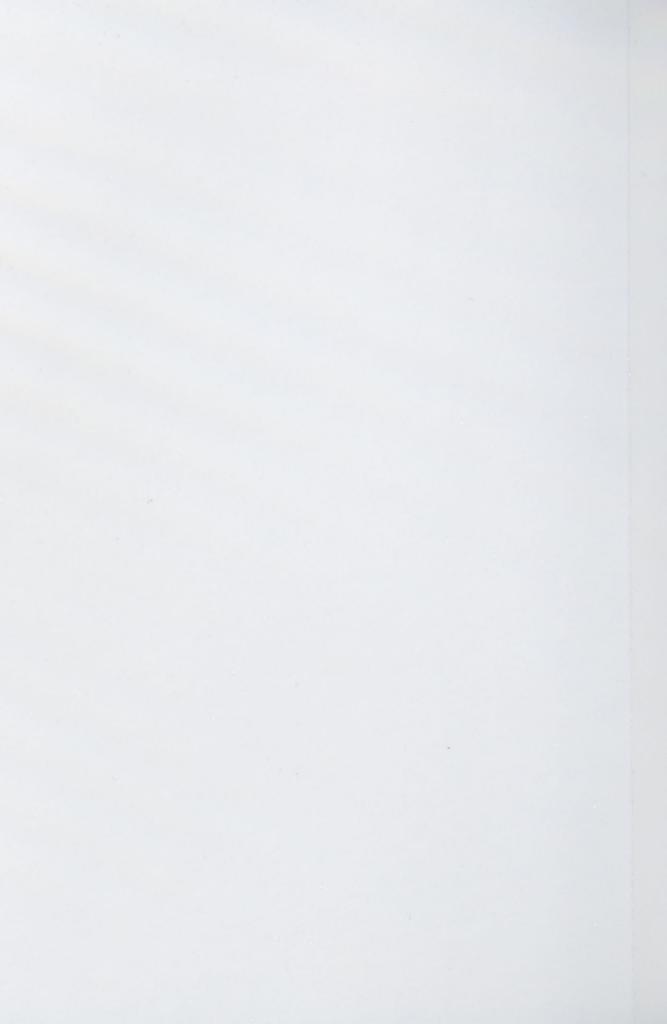


Langlois #90. - Fracture of L. annominate fone & head of Fermen. much relief orcured have Elevating affarates 300 6.17. This was applied in July 19/17/ The prin tell by patient previously when turned Hor In secure was worthed and consolidation began to be apparent. In early September it was complete though a seines remained. Mound March 2. 1916 - Iden. May 76. Gereliono - Trylo F.B. Extracted, 9/2 2/16 Besetting heady farmer followdely suspension - extension, 47/10 apparatus general up on followed by Obdirection in a plaster east, 125/17-Wd. sufected, Draws inserted, 575-17 Eclat recessored Larm 5/17-cultowest + replacement is acital along followed by season a solution 4/17-cultowest of the consolidation of the consolidation



Tufferey. Pa. admitted aug 20, 4914, wounded aug. 20, 1917 Diagnosis. - Diregular transverse fracture of lower 5- of L. radius + lelua, Peton wound I reatment. - Cotton glove glued to hand. Forearm sugrended perpendicularly from by strings rem chrough rings in the glove linger and . Wound irrigated with actic + quidwice per Datia Parrel tubes. Same Sate following operation for arm extended as follows - (ore justime below. - grove used to extend arm by means of rope over pully at post of bed. Sometimen trusion by means of extension trips glue to to aut. post aspect of forearm. "ous olidation arm taken down . Function of hand good though olightly stiff. Patient used to bend frigare of extended hand with others. Hence no use stiffness. 1) Discharged. See next present for result. See diagnom p. 10.





10 I'g CH Abduction de

reparter CAC

ale. est 5). Dans liers hon CC peri

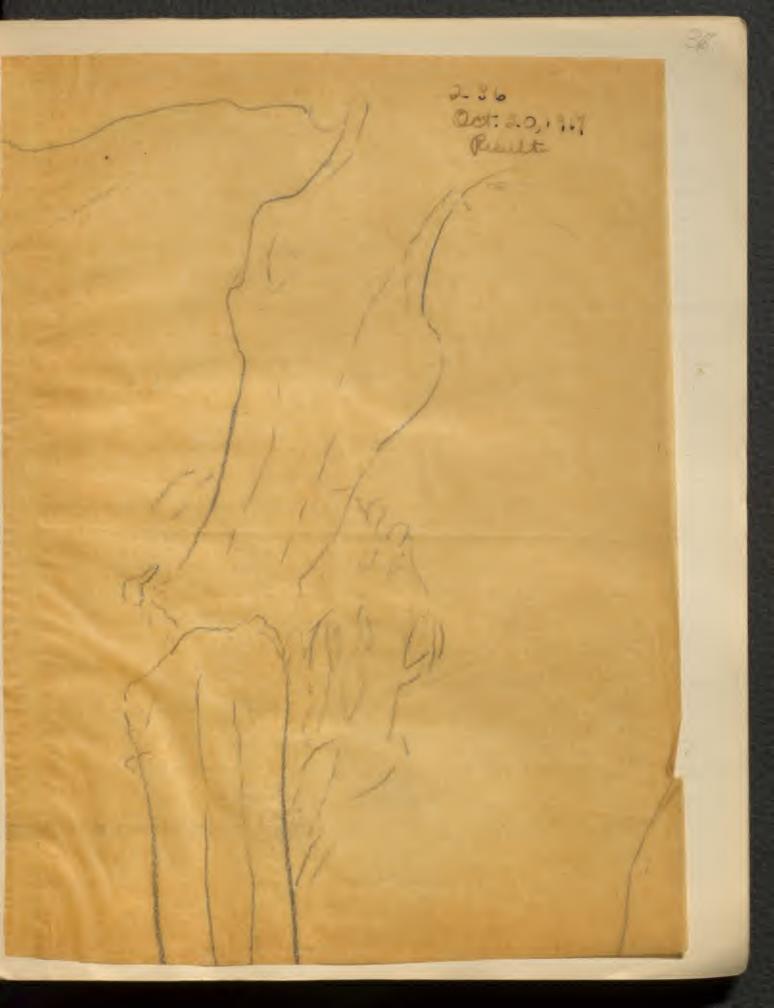
etro nnequin également représentée sui du cubitus, muni des bandes dessoit par un gant collé. La contre-La traction peut as blessé.

de suspendre l'ava tions, la

Aussitot que l'és le permet, presqui soit à l'aide de ban tion verticale, soit hilisation e en un ment ou En effet,



Fractured Fenner - Dill ho 236. 236 date? Steinm aug 23, 1917 Femus gon frame on the Inadpreves the position o abduction as extension in way secure the result se on the ac calcs.



Fractured Fenner - Dill ho 236.

Steinman Pin passed Chrough sondyles of femus and extension made by a semall frame on this sin. Ordinary stropextension had previously proved in sufficient to correct the position of the broaments.

Obduction and extension in this way secured the result seen on the accompanying calcs.

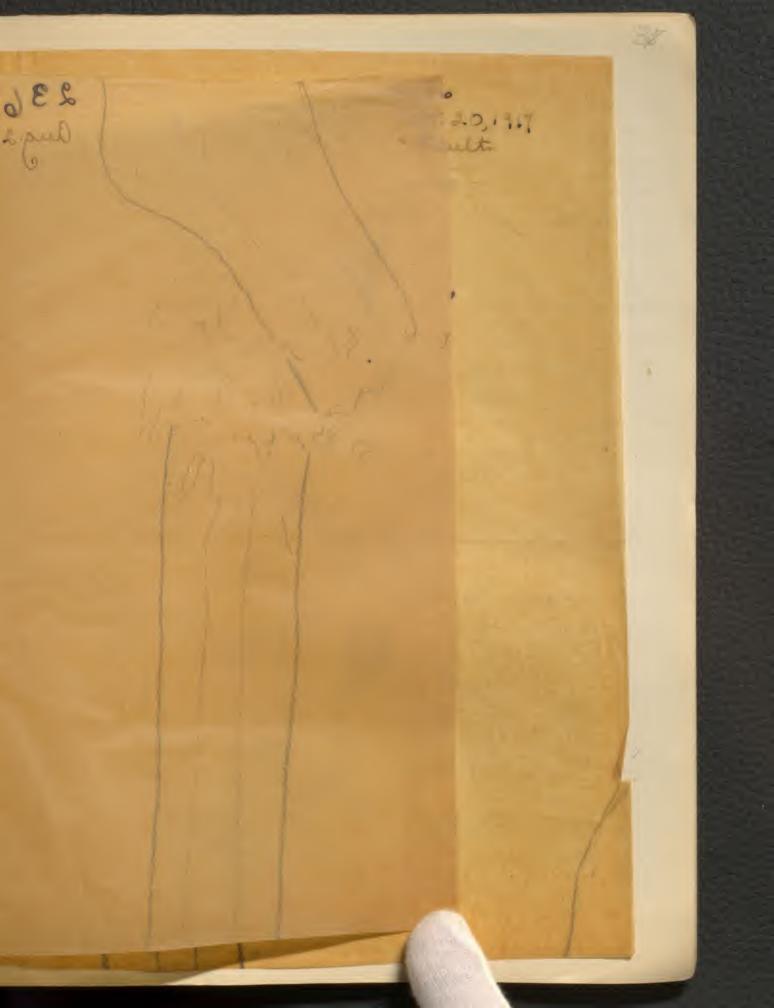
Stein manpin

Extension cond



destinant of flower in Sloke List.

236



Les on Roger. Roger. 20 h 113

Cusp external femous Roger. Charles He now I belleve align (ment Bleed win 80 Su well po to to

163 grene 27 Roger Royy

Froctured femus - Roger Dri holls.
Wounded May 23.
Suspended as below June 20 with 14 lbs.
extension and considerable abduction
and 27. Esquilectomy performed and union
broken.

Mov. 3 patient was walking with good function
slighment of thigh and some stiffness at
Base joins?

abduction - Blake (Thomas) Splint.



France providing for extreme abdudion-fracture funni.



7 5 mus 2 163 June 27 1 Roger A rot of the man

Roger and Result 163 000 for further cales see p. 41 etc.

Laboratories - Dr. Taylor - Generican Red Cross, 6 Rus Piccini Routine for Swabs from Wounds.

1. Ewab taken with reavy wire and coound & cotton from surface or aims of wd. + place is tube plugged & cotton.

Direct succes made - grow.

agar slaut made + Swab placed in broth tube - Both incubated is hr. at 37?

It same time as Habove. Boil Itabe of milk and one of meat to for I'm hour to drive out the gos air. - arend of time care medding to prevent air entrance. prevent air entrance.

- Transfer swab to meat carefully. Transfer swab to milk + Lucubate all jour tubes 24 hours.
- 1. Examine milk tubes. Report stormy reaction to word as B.A.C.
- 8. Incubate for 24 hours longer.
- 9. Make Smears & platicum ring (1) Bouillon (2) Meat (3) Slatat (as many as seems necessary for various colonies on slaut. (2) on one sliche making cercles E bleve pencis + passing from one to another without raising leuse fr. slide.) [3000] (4) milk - well surearo made from 5 different wills on one slide.) toin & grown.

163 Aug. 2. Equille indic. mion broken By 27. See may to make for result. for further cales see

phylete.

n - Buerican Red Cross 6 Rus Piccini agged à cotton. die broth tube - Both milk and one of meat to for all jour tubes 24 hours. 14 reaction to word as BA.C. Un (2) meat (3) Slatet (as many as seems (\$247(3) on one slide making circles without raising lease fr. slide.) from 5 different wills on me seids -)

Sample Report on Routine Leval. I. Book for data of swab.

408 (seried) no of swab)

1126 (no gower) (No. placed on tubor o in duching writes at a new no. is given;

27/10/11 Begeon 46 Paerial no)

Swab: Blood, Pur - Rt. Wrist

Buesar: Servers, few cello, Bacteria. Cocci, g-b (bacilli), g-rods spore bearing B. (bouillan) Meat [gas] small oval g-b, g-b, g+rodo Milk Bal. reaction - sures >Bac. Stapligle albus + aureus (tell by looks of st. and microscope) Sl. II. Permanent Record Book. Date-Rotolon W. - Seriallo - floor - Ward-Bed-Name - Specimen for Dragnosis Results : Remarks.
2/19/7 1126 - 469 - P. - 28 - 3 - Bigeon swood-Rtwist - acrobes: Staph, g-for box Quaeroles: BAR. Culture Media. 1. Mest - Leave beef - grind set, mash in mortar, weight add equal Cutoclave & low. Before tubing make just alkaline to Ph.th. & normal Na 04.

BAL reaction gives - Bubbles, pinkcolor + odor of rancid butter.

2. 11 2. Milk - (with the cream) tubed + sterilized indutoclave indinonyasan slaut.
3. Plant - agar slaut. melt up some blood agar + pour over 2/2 agar. +2 1/3 peptous 7. Boudlon:

For the Doolation of Auserobes.

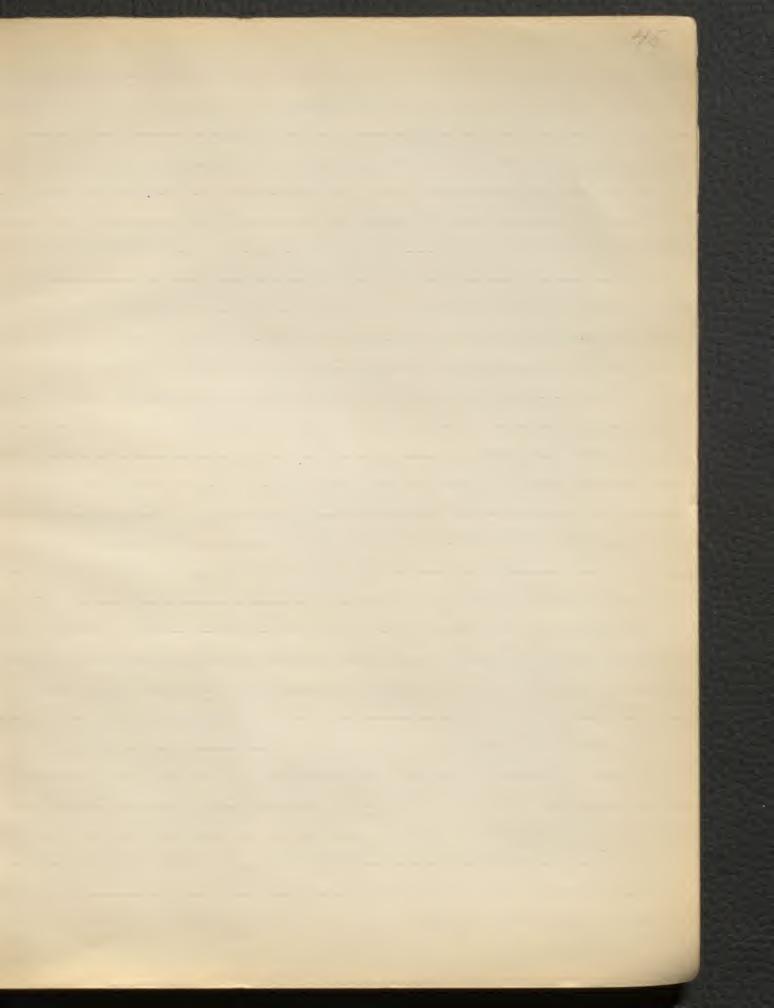
get auaerobes on loop from meat culture

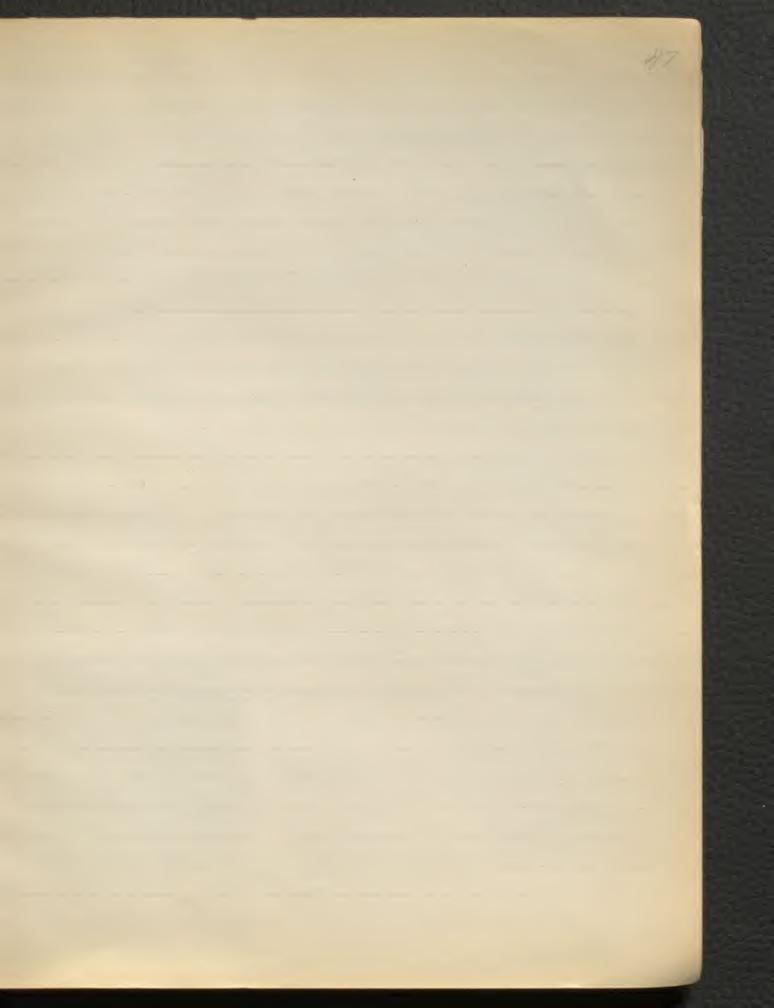
(Veillon agar used-Pasteur Institute- Formula
1 of peptone
3. 8 of gelose (agar.) percentage of the total volume made
1:5 of glucose
0.1 of KNO2.

Heat 3 agar tubes till melted. With stationer both book pass from first to second to third tube. Incubate . Chook a lube be where colony may be isolated, cut around tube \(\tilde{e}\) a file. Apply hot bit of glass to cert, their cracking a about the agas to fall into a sterile petric dish. Pass Pasteur pipette draw isolated colony into it + wich draw r inoculate anaerobic meat + with + examine.

B.A.C. reaction-Bubbles in meat. + Stormy reaction in milk. At the end of 24 hours the stormy reaction may appear. If so report B.A.C. to ward. Waiting 48 hours often brings out one not appearing in 24 hours.

B M M R Zi Das 27/91 8.M 2.7.

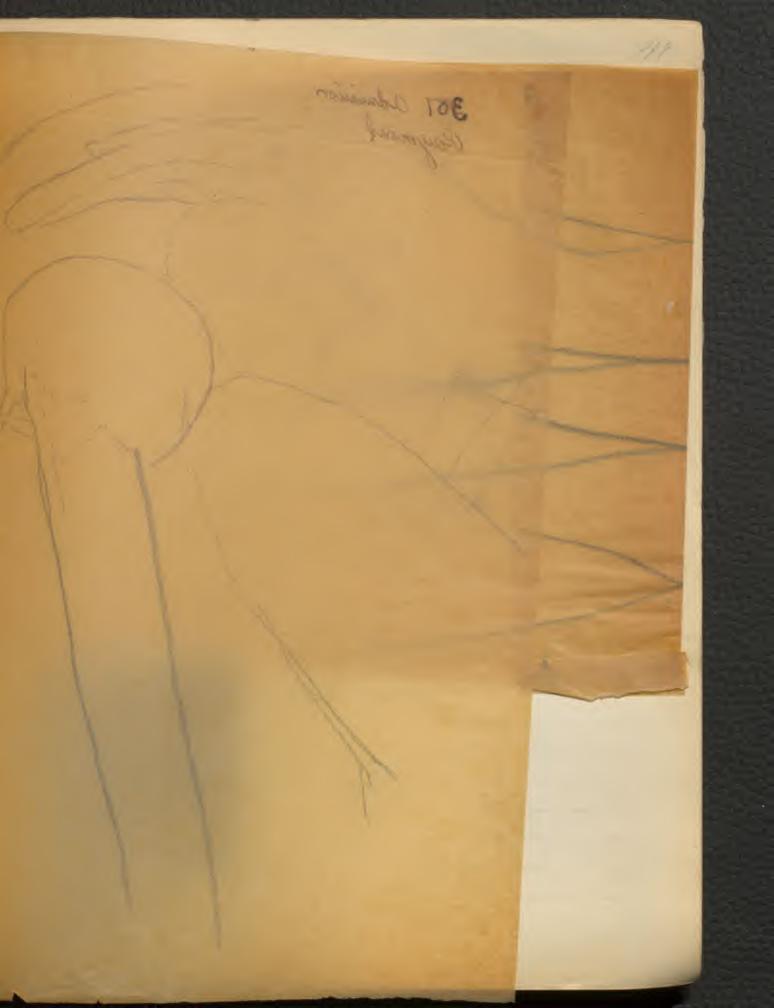




Raymond-357- Fracture of Head of Humerus 301 Admission Coul and a short Date 100-47 - 77 - 35 LOZ



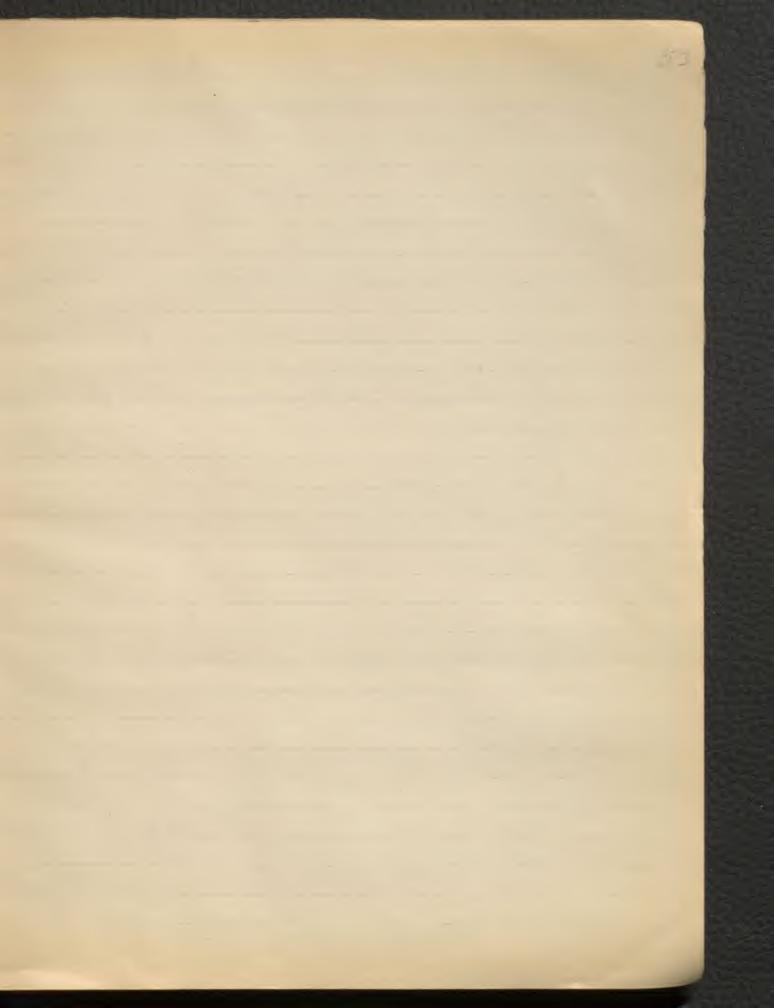
Raymond-357- Fracture of Head of Humerus Wounded aug 25. Put up in Sparatus Left 11. aren taken down about Oct 25 constillated Des Osecs p. +8, 49, 50, 51, 52.

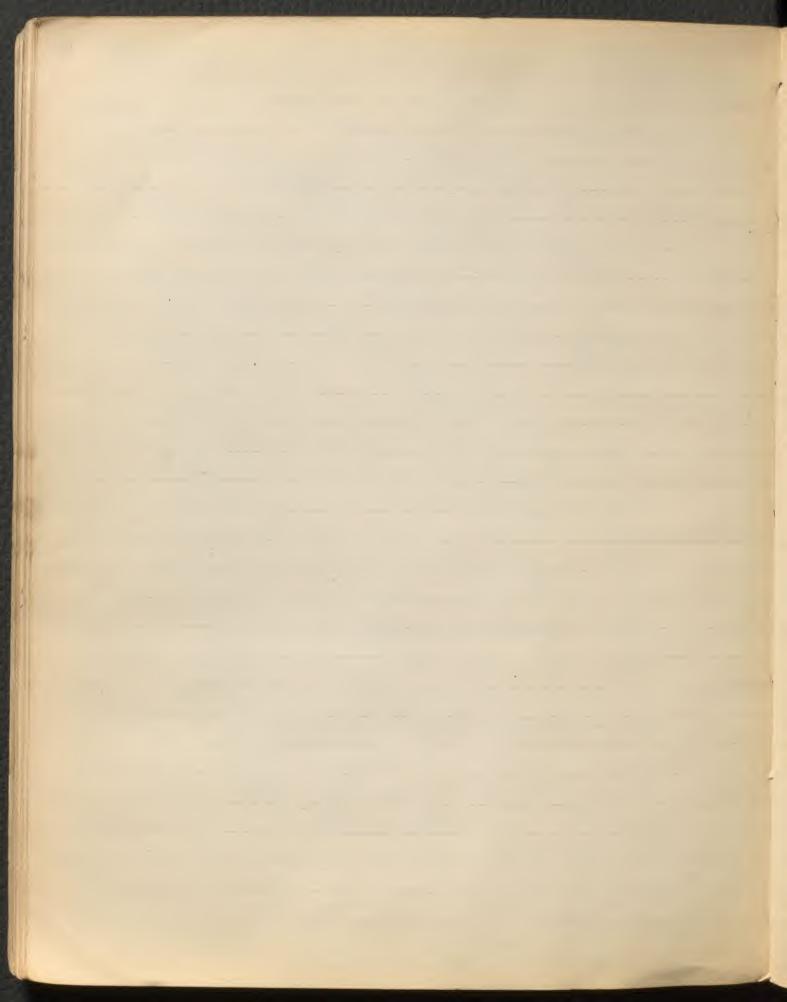


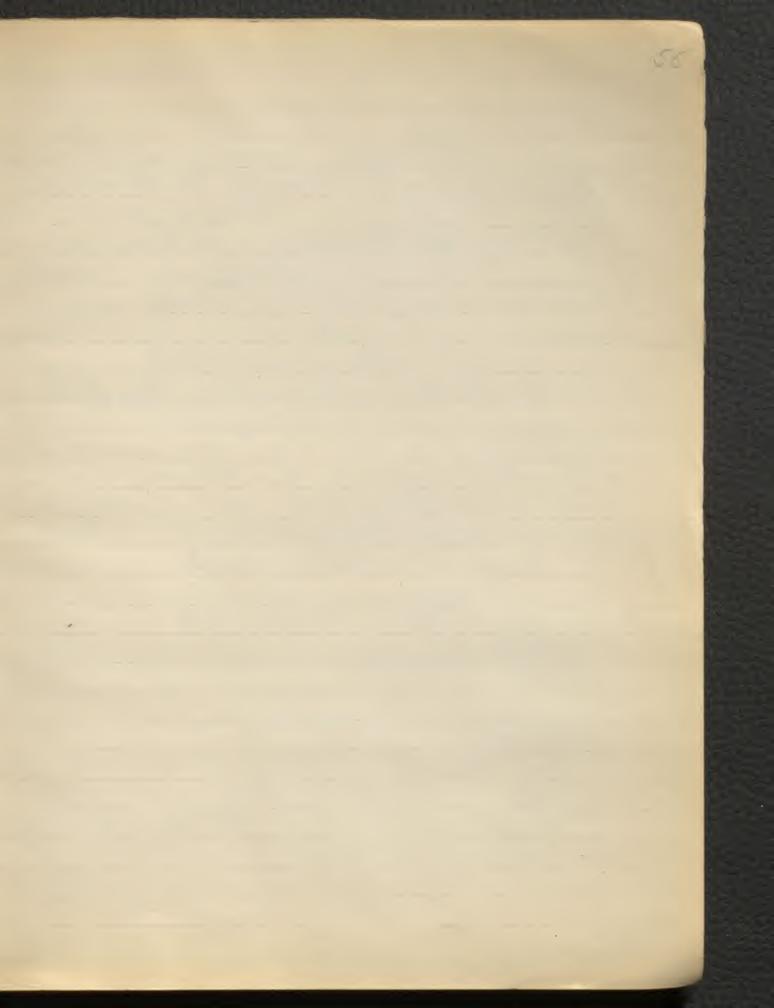
BOT 54+ 18 301 Ray mond St 18, 1911



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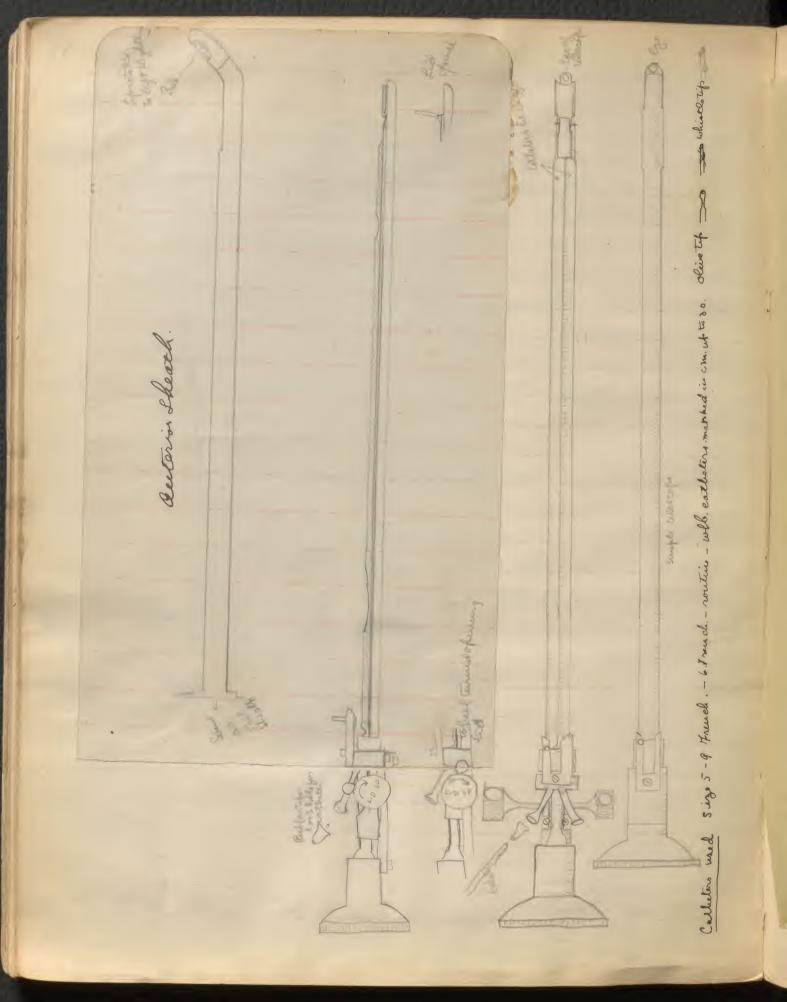




N . A Was i

Peter Beut Brigham Hospital \$ 1918-1916 Cystoscopy Baown-Buerger cystoscope - Wappler Electric Co. Juc. - New York. Sterilized in tin box provided ea lamp to distilt off fumes from formaldeligde tablet. Grigation and distension of bladder with 2 of Boric. Lubruaut - dear glycerine. Augesthetic - Cocaine 50/0 - Female administered & toothfick swab.

Alopin preferably male " syringe . without Patient en lethotomy position Pyelo graphy. - Catheters in place-pt. to operating Knay room. Thorium Ritroto 15 of nacised to run in from burretto - ad pain (8-1200) Small tip on burrette tube corrugated + fine point To x hoy bladder 10 to Florium hitrole If desired to fill bydro rephotic cavity use hand segringe afrecord & ray. after Catheterizing wreters - get openius for reducent. Then do a Phenol Alholein - 1cc. introvenously hote time of appearance of color (hart in tubes Run 15' after color appears in first trick much water. Posterior Sheath. 5 Subeto irrigato E sorie



Newyork Dispension about at 2 Comus + moved All much screens it is agfilled and the state of the Start leters - more is end they. Start or Jauge ·e.- 12 ? 'overed i duck no the same in the same in the 'the tige nd increase and the second s Be.



Connell gas + Oxygen Machine. made by Scientific apparatus Co. "NewYork Oxy gen meter started at . 8 Little per mins + moved up to 1. on 1.4 (or higher) no meter started at 6. (Bag filled 5 any Ox after breath or two start O2.) Lucrease of no above 6 ma leters no t supposed to deliver any more nasal tubes à safety peur in end Coses having had previous ether Start of few drops of essence of bitter or gauge Ether cone. Wire cone - 12! thicknesses of gauge over it and whole covered a duck Cover à small hole 2-3 au in desineter. Cornell Ether Machine well. Start machine at 16 mm. Hg. pr. of ether and increase to 90 rapidly. Then down-reuning at 30-45 mm Catheter used for nosal tube. - Used for goutre cases etc. Mark on Bucheter 14.5 cm.

Spinal Quaes thesia. novocaine Gen. 0.150 dissolver in 3 cc. water in test tube. Boil down to 2cc. Then inject in 4th & interspace, draw out cer. sp. fluid + reinject. Tip man head down to carry cocame up. Druation 1/2 hr. to I hr. Leg amputated perfectly. g. U. Dept. ODD. - Lom C. Grinby. Routine Politions. 1-5000 ag no3, 1-1000 agnos - Sterilo H20-> Varying strongths 1-1000 Pot. Permanganate - Blodder irrigation. 2 Lita 10/0 Sol. of Lysol - disin fect cystos copes. Formaldeligde 1- alcohol 250 (70 0/0) 1 - cleaning up patient Boric acid 20/0 - irrigation = cestos cape. Post writhing. Boric acid 20/0 - irrigation & cystos cope. egno, 10 of Ind to have except in extremis Za NO3 440, 500 - pelvic wash na OH. 10 0/0 - reaction in Pleud Path. test. iorie 3. Water 500]. HAS come.? alcohol 70 of o + denature & alcohol laufunder formalin sterilizer. Montral Tomalin ; Zecker? Sectional Pocial ? argyrol 10 0/09 250/0 wethra, Bladder washes. Protargol . 5 of - female wrettera in gonorhea, also male. Ludigo Carmine 0.5, Nacl 0.6, water 100, Chromo welhos copy. 15 iv. worth Lot. Hypoself lite 1.7, water 180 Justure Lodine - Paint Cervix + Vogins - morrhea Copper Sulphote 25% - chamoroid emiterization - reference G. U. diseases am. A. 1117 Formalin rastiles - var orized to sterilize the web extraters. Or bichloride

Jod form 19m. quaicol 5.gm. Olive oil 100.-soothing+ autiseptic In-Sulphote gue D. 2, Lig. Pb. Lubacetate dil 100 N - astrigut Luj. for Corrosive Sublimate >1-16 40 c. del to 1500 =1-1000) - taxepon in Jon. + Salfregitis I ctheol 10 of an glycerine Sterile floors Cocaine 500- 2+ & wrethro cystos copy " Petrolatum " listrumentation Soda Becarl, Soda Borate à à 37, water 3 VI- Swab mu cous eff os eaving I Litnus paper. Muko (tabes) L. F. Chapin Co. Boston Mass. Lubricant to glove finger + Sounds Table men's room. Bowl-Bichloud, E tips to swetherd syring & Kollmans covers. "Metal sentheral seguings. Bylass plunger syringer for cocaine in mole wrether etc. Bull wretheral syrings Dowdered gloves, nucho medicine flashs. Sponge sticks in alcohol. dry sponges "Ole openges. " Took picker Swal gly cerive +, petroloeum, 1500 c. flask for Bladder wook fluid. (19) Kollman. Bosens (18) aring flootsglasses. also. - towels + hole lowels. Sterilization. Calleters in form alievaporbox Debouges Sounds - boiled. Cystoscople - cleaned & Doap & water. Placed in 100 Lysol before using + transferred to sterile Hnd. (In house, sterilized & formalin rapor) Ureteral catheters - informalin or bechlouide la Cystoscopes - all Brown-Berger mode by Wappler ee. aut. Post. shealth + wrether scopes. an operating scope fits either aux. or pos. sheath. Broosh Scope Allright for direct tision.

Followers for filiforms) cleaved in soaf

+ water + wiped & alcohol sponge before

use. Filiforms sterilized same as coeketers ex

Light for cystoscope- Hever ready batteries in

a wooden box. Or a stepdown on direct current.

Kollman covers boiled each time.

Diar senol Cosphen amine. - P.B. B. lerological BDD.

Opporatus. (1) glass stoppered bottle-groduested in 25 cc. E file.

Sterilize with stopper off & rorapped in gauge. De Jong solidflass Mirrung rod for freeking up a last programme or splenamine if necessary.

(3) Ice (or 5 c.) pipette por dropping in NaOH. (2) Long high pressure resber testing with a three way stop cock. (5) Rusber stopper with a lister attacked to fit fattle. (6) Wasserman medde to fix connector on tube. I sterile solt solution, at blood levels. distilled twice distilled over glass. (7) No OH. Chemically pure. 15 of of or 2016) Diar secol are pleasuring made by

Suringe method

Suringe method

Intercuren . Procedure. Dosage - first time 0.2 gm. or 0.4 gm. according to size. next time boost to o gun. F. I ils diarsecol unpoule & breakoff top. - Powder in bottlet) add at least 25 ec. valine (7) for each 10 gm. Sear senot. (Do not lave it too hot nor too cold) Stopper wick gloss stopper and shake till dissolved. And drop by drop the Ha OH (8) until clear (mentro) Make up enough for the days treat ment at one tienes just or redu out from bottle to dosage desired. Patient recumbent, clean up cerm c sterile towel under. Tabe & tubeing syrings et all sterile. Serut up. Jusert needle in tubing bolder & insert in veris with 3 way tap connecting regringe with needle and saline in syrings Seternemethat you are in vein by drawing Suspringe & reinjecting without without producing boundona. Tour, in growity method allow deciseuol to flow in. Or by signings method draw out by turning top + inject a syrlige. Luberculin Dosago.

Allright for direct tision.

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7 - 0.2 00 8 - 0.5 cc 9 - 0.5 00 10 - 0.1 00 0.1 ce = 0.00001 cc. 0.T. #4 - 0.1 cc of #3 " 0.9 00 01 " 11 - 0.2 ce 12 - 0.2 cc 13 - 0.5 cc 14 - 0.5 cc 0.1 cc = 0.0001 cc. 0.T. 15 - 0.1 cc 0.9 cc of " #3 - 0.1 cc of #2 " 16 - 0.2 00 17 - 0.5 cc 13 - 0.5 cc 0.1 cc = 0.001 cc. 0.T. 19 - 0.1 cc 0.9 cc of " #2 - 0.1 cc of #1 " 20 - 0.2 00 21 - 0.5 ec 22 - 0.5 cc 0.1 cc = 0.01 cc. 0.T. 23 - 0.1 cc 11 - 0.1 ce of o.T. " 0.9 ce of " 26 - 0.2 00

TREATMENT FOR BICHLORIDE POISONING. (As worked out at St. Luke's Hospital, New York.)

1- Copious stomach lavage with water or induced copious vemiting. After washing out stomach leave 250 c.c. of milk and 100 c.c. of 50% albumen water (white of egg).

2- Stomach wash every 3 hours first day same as no. 1. Afterwards twice daily until urine is free from mercury.

3- Every alternate hour give 8 oz. of alkaline solution, viz., potassium bitartrate sugar and lactose lemon juice and the solution of alkaline solution, viz., potassium bitartrate boiled water and a solution of alkaline solution, viz., potassium bitartrate boiled water and a solution of alkaline solution, viz., potassium bitartrate boiled water and a solution of alkaline solution, viz., potassium bitartrate

4-Every alternate hour 8 oz. of milk.

5-Murphy drip of the following solution: petassium acetate, one drachm to 1 pint of water.

6-Nigh colon irrigation twice daily.

7-Daily sweat in hot pack or by other means.

Urine is secreted from above treatment in large amount. Treatment is to be continued until urine shows negative tests for mercury on 2 successive days.

Instruction for Acute Orethritis Cases.

Cleanliness.

Wash the end of the penis at least twice a day with warm water and sosp. retracting foreskin, etc.

Impersion of penis in glass of hot water t.i.d. is good. Urination with penis immersed in not water is advised.

Care to clean hands after urination, injection or handling.

Do not use common bath tube.

Care not to leave discharge on toilst seat.

Discharge.

Gauze bandage about penis held in place by foreskin if present. Gauze bag if no foreskin.

Rest.

Get as much sleep as possible. Meduce physical exercises. Riding instead of walking. No dancing, bowling or exertive sports. Sexual rest. Absolutely no intercourse. Prevent erections if occurring, (cold oath before retiring or Mahr. gr. 50). Suspensory or Jock strap in the acute stage.

Food.

Absolutely no alcohol or some fountain arimes.

Spices are forvidaen.

Coffos and tes in moderation.

Increased flow by drinking such water in acute cases.

cause urethral irritation to persist.

Bowels.

At least one movement a day is necessary.

Internal medication -

"Compound Talol"

Salol gr. iiiss or .2 gm.

Gopains mins. A l. cc.

Oleoresin cubeb. " V ,5 cc.

Pensin (1-3000) gr. l .06

Mix and make capsules.

Sir. One after each meal t.i.d. with full lass of water.

Or

Bir.

PDC.

Salol	gr.	IV	.2
Oleoresin sent.	min.	V	. 5
" cabeb.	17	V	.5
Olive oil	1.7	V	•5
Pepsin (1-5000)	gr.	1	.06
Ulminaton acid		hove.	

Il. Sautali Ju. 0.5 T.I.D. P.C.

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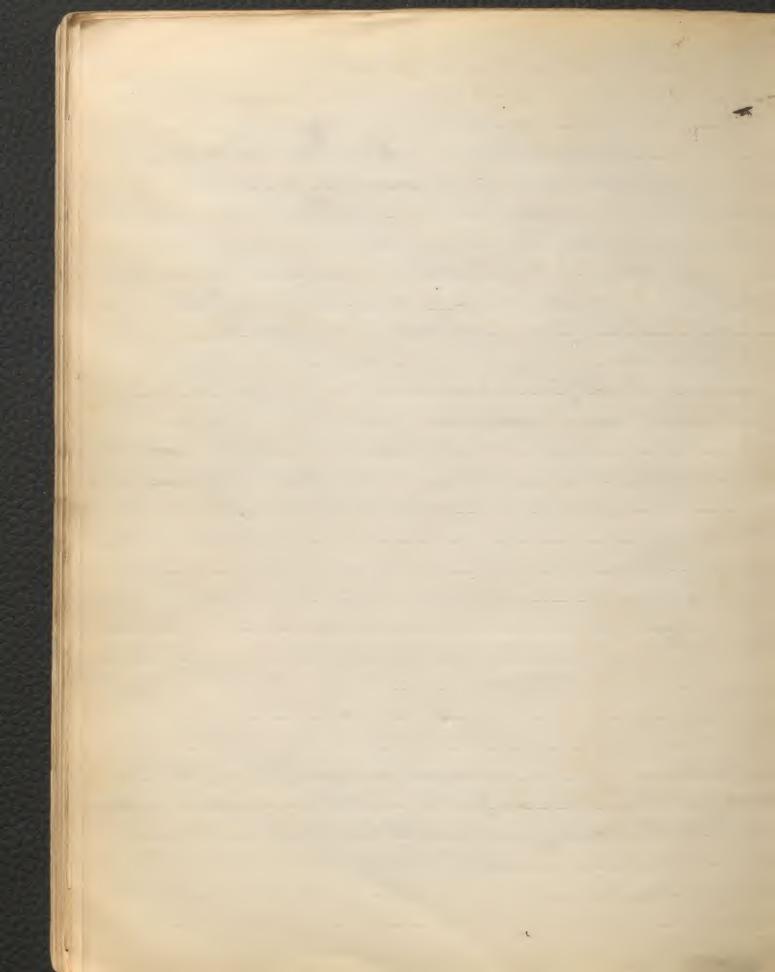
wintergreen oil mins. 10 as above. If the above the stonach. warman in 10 min. capsules t.i.a. to the cove (unless distressing) from the time the patient codes In the urine is clear of pus (not shreds). 40 rirritacility at bladder neck and dysuria -8 to 25 gr. imor potassae 15 to 35 gr. le. voscya us as cimamoni des ade 100 gre resso. in water a 3 hours. give Rexamethylen amine Ju. O.3 T.I.D. P.C. in H20 with Booid Lodium Phosphoto Ju. 0.3 T.1) PC. I there are signs of bladder infection. nen. youorrhea. cervix if indicated with 100% aglle, ou swabor terethra with finger, if there is pus either swab or instil protogol into verethera. Force flevids, rest etc. alycerice are or glyceries earthyof tourpor + remove hours. - Douche B.D. Peelvis Menthol Composities. quart of H2 U.

alcohol 70 % 250) Operations P.B. B. Hospital. Formally a 1/ Oppendice closing.

Oppendice closing.

Operations. I Shave + washin P.M. 11 a towel above + below area over doller. III alcohole taken in bare house 3 sets. IV. Biculoride 1-5000 sponges 2 sets. V. Lap sheet (obeng opining) vi. Towels fostered & towel clips. VII double sheet below + above + one over feet. First asit has previously scrubbed 5 min . then alcohol + Beckloride 1-5000 5 min.) alc. + Beddovido agrecio to hours, gloves in water, gown. (or gloves in Buchloride Jucesion. (R. reetus) over middle of R. rocters from beginning a work of the fath o him & ganger middles pad mynike few can below level of uniti cour, about & cur. inlength, rectees muscle reflected medially, take care to only push nerves upordown. Peritoneeun with forceps first then keinfa Kelleys on peritoneum. Follows ablandix out of wound. # I duronic cat gut to tie resolve in append. mesentery, I spendix crushed at base and with kelley clamp which is their moved web a lettle and classified. Plain Cat gut # 1 about and tie. Vair of bastead straightclamps on base of asherdix + tiethe aut. Stemp but tie. Towert stemp a bolsteaust if necessary muc. memb. (alice) clamps on carcum near. Tie peerse string after lu persion. suiert tie auctuer purse string or a mattress stick to further in vert. Mesentery over sets. Close paritoneum With #1 clouble plain extgut certin wous Dr. Jacobson) or with #1 sligte conteir wows obsonic (In Cheever) Same stitch may be used to draw rectus back in place after dosing peritoneum. # 2 interruptes curonic cat gut for fascia. mattress stitch. L'il A is overlapped ou over side B. Stech I is taken alway from operator and 2 loward hein. Fat-fat fascia approximated by # O plain cat quet. I lein weisian by self on plain Straight needles Bichlorido sponge toskilu, Silver foil over in cision. ganget adhesive

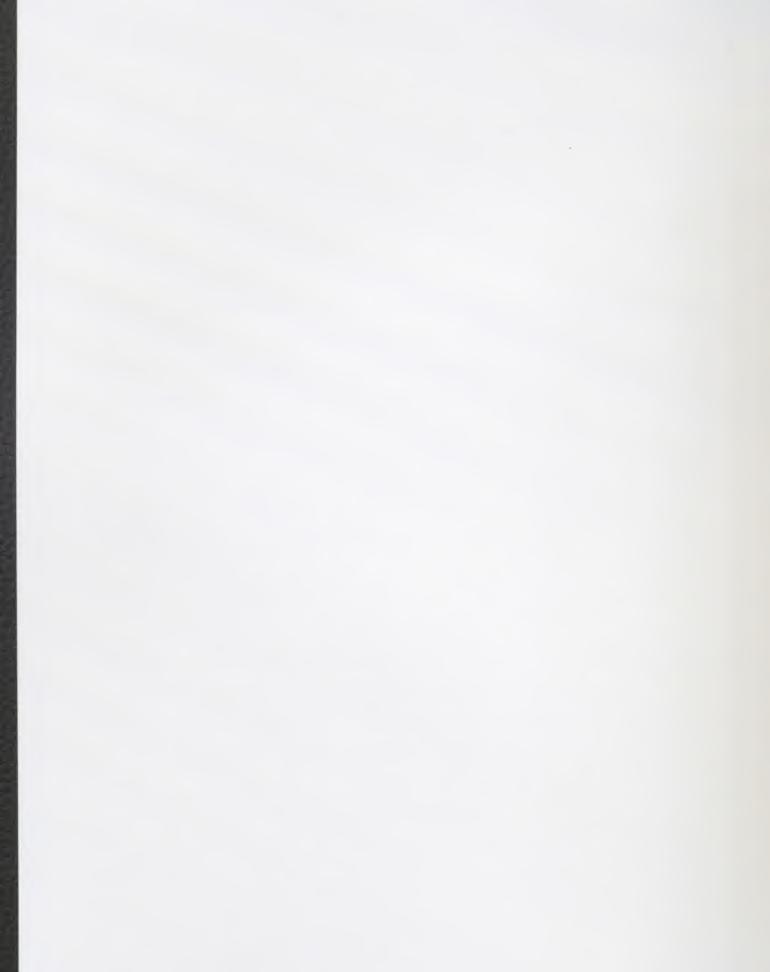
Pylotony or Stone. Jodnie + Bleshot Prep. - Pt. on side & Dand bag weles side and lase tropen. yas+Oxygen. Hank in cision - From past below 12 in the cet. to Lat Dorse downword + loward. Expose Ext oblig u + aplit films were and seross them in her of inceres + retract. Cut meternal obliques Jucise the Capacieover rent fat. Ease-personen. Frit the falt assure as with sposist. Manual y Dail out sialler. Take ear not to stip of sidney capsille. Salve Kinney. Lucise previs post riory of any our stone ? gul blacer ecop. See up prois " ref fat & sutan Dy evening redery of upsulo a lette it is not to fix tel tiposition oyal resions. Leave saline of in forsa. If more space is needed the costs vertebras fascia may to tensor. Cut. Cut muscle closed in eagers & wetersupted arousic selleres. From at gut to fat and sich to I ben. Lucision in 2xt oblique Lieung 1/1 The usp jutice ne strectory - Steps seminar to abour except that sidney predicte is crown feet & right augled cromps In dispiantly use big budges Craws



Eboulder sees him connected by to suring to cheek agoust cheek Face eushi mouth may be reached by anaesthetist X Quaesthetist under kheets. 4 wet lowels prined around fuce and risuface rim. Feels of con. nel introduced in to Toal cone + Cone llove at bottome. after pt. sleeps the tube is introduced into the nose. Slood pressure bay and stetherscope disc be Cerebellar Operation. bound to RI. arms. wall Preparation. - Back of wad shaved by orderly. long tubes to anouther Cushing - billoride towel over hair. alcohol spronges to field. Incision outlined by built Beckloride oponges. Our layer of g wet gauge over field. Speet puned to head so it falls over the wire above y covers quaesthetist. Dealbride towels to otrouler. Long to lable over obould - gray about over that and all of head except field Therese out alon lives of encesies already out lived. In cision deepened to Surahs put on deep layers of Ocalfor turned out to course hemostosis. Surable held in rows by a sponge that older Hove indicated incidion que rened to okul & prinstrum

Just me D. Sman (straiget.? Snops & silver clips -Small cotton swals meses out in salice. Hone wax Periosteal evator, jo ker or shid. Rongeurs ____ Perts. out must be just in mid live continuing down to atlas as it has to a removed at times. Bone Beering stopped & home wax put mi fuger & jokes Bone exposed down to canal. With electric motor and round bit to some hole mos on litres side of acc. portuber auce. Enlarged by hand orace + bit, beginning in holes wone better out by Tonglurs of various sha us 000 [] Lorge fixed bone claubs use also. to sped via ____ ? by needle which is left in place. Devra lifted by tiny hook. Smal hole 2 Scalpel. Grove derector duscreted + cut more on it. Dura reflected Sport Apolita under dura » furtues out mude & scersors Bleederin lura stopped & selver slips. L. lat. erebellar lobe efted a spalula for in exection. Sural out in L. cerebella lobe und a blunt trocker in trocured unto cerebellum. Small and of Suid from probable cept. Too deep for removal.

Jangleon. Cushing (hours High the.) on side high table laff. other Robert Rosen bloom. Sarg. no. 10,036 Pause had been resuire- sic to sure at 7-8- severe frontal head aches. 18 months ago. bleering R. eye. followed by blindness here 14r. ago blurring of L. eye + Decompression in n.y. Lut. strabisomus of R. eye as long as he can rewember. rgeal is sought Pos. Findings. " fed & bone way Suly - Complete loss vision in R. eye. Impair ment of vision t. ruch use of to thon L. hensi anopsia. Fundus co. optie atrophy - ol. eduna clisics? to wax & st R. Sux. Strasusmus of R. eye. et c ating were Hearing st. better on L. side. ig pmganglion Plightly under size. No Systrophico adiposa gentalia. are exposed. A + over the Of. Transfrontal astroach to Petritary. horse shor in cision above & R. orbit. isotus forceps Surrounding the chiasus + raches more to right was a large tumor color of mother of , te evelsed: searl & sucling out like wet seen aust. moved. lessen the flow a cholestema, the second Cushing hasven. it lance the When scooped out a pluitary spoon one could 'ed as hemosee chiasm and eircle of Willis! good before closure lther recovery. Da. Cushing had refused once to operates a previous nuscle eages ramission. is pasked edges with file . E Spatula Brain



Robert Rosen bloom. Sarg. no. 10,036 at 7-8 severe frontal head aches. 18 months ago. blurring R. eye. followed by bluduess here 14r. ago bluring of L. eye + Decompression in h. y. Lut. strabisonus of R. eye as long as he can rewember. Pos. Findings. Suly . - Complete loss rision in R. eye. Impairment of vision t. L. hensi auspsia. Fundus c.D. optic atroply - sl. eduna clisics? R. Sux. strasissmus of R. eye. Hearing sl. better on L. side. Slightly under size. No Systrophico adiposa gentalia. Of. Transfrontal approach to Pituitary. Horse shoe in cision above . R. orbit. Surrounding the chiasus + raches more to right was a large tumor color of mother of pearl & sucling out like wet sew aust. a succeste ma, the second Cushing has seen. When scooped out a peticitary spoon one could see chiasm and eircle of Willis! good etherrecovery. Da. Cushing had refused once to operated a previous admission.

House Rosen dem. Serg has 1903 (s sever frontes had acho. onthe son blummy hey, whood of his how her, go bound on the first was her of business in my. I wanted to be considered to the second on the second of the second on the second of the se in less on of - weight booming in R. ey . Bu pair went of verson . whis it stropy - of there alies? r. Sinsermon Buy. a al bettern it and they center sign to systemples when guitation Transferration acrosses to Redictiony. wante on to see in the order remaingther characters rates to being a said the art in mother of resoluna, the second Conding Cooren scool don't o puliety from mount win and will of willis! food hanne indices .

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14 11,12 2 Complete 11,12 3 Attacks where of the said of the said of the of the same of the " I mount of " 100 he duelies of the bill of some of the inpeople have have and special your a, early will and -20. 13. Person on since you Bus of we a recent. en two structures spend spend my thekay is such in to send you an as to seemed the travel comment of See 1 was

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Call. R. Disonstons yet Empoullote 60 - C3 guly 31. ers ago lock of audition 4 yrs. ago teadaches to occipital. I morthe head acle + vouiting not but fearbrained wanse. unalable sunor His orientedion. - 74. brought from Post land mayor dings. Herd ache occipital, Vonisting, unstrady gait is . runtional imblibility. Die orientation ralchafe disc 4 5 D. States + intention brumord by in souribility quenolly dimin is had. subsciofited tendences of les and had on chat rais. exapperation of tender efferes I ail. IMB. efected a L. Course mous lemion opera indicated prolune in prosted whim you have being planned to do a R. Jone fleet but fless observer vino on the silvey ocal pour mon dilleted dan mapination desciled to local the theman of is + did a Rentenderalder but temp. Decomp. beelle in accord temps covered My in 3 counce. Trus got owner of them of find blec is sell level exprises + of sep. wells 4.4. 1.010, Ub. ++. Jugar 3. 24.0. R. Louis frailed. - Owner Rists deaf cause not procused. It was appeared to assig apt had been up touched. It was

? serous arachusiditis Joseph Paraboschi zune? . Hys ago. pain in back of neck . It / ye ago occipital walache. I months voniting 4 yrs ago oquint corrected by bjection & st. on L. Choked disc. papels delate wis R. eyel St. on L. Choked disc. pupils delated suborg falls to L. Mod. Erophthaluss facial paresis. I have fulls when horiz outally held. esonance to head. Del. veins of head. Headon L. sich +

your extended, Para prointing to L. a both hand. 421 Bp. R. Subtemp. Decompression. Pundue of Lat. ventricles felt not justified in exploring over cetebolium.

othing found. neuch fleid with drawn. by 3. Sub accipital Exploration for Presenced Cerebellar Leunor. no lesion exposed. Enormous cistern resembled but he bodseun in hydroaphalus deu to serous vrachwoid itis. 3 No. July 24. altoupted brans suividal Drawige of Belated Ventricles . - Bone flap replaced & success 25 draininge have working was too great. rarked improvement.

? serous exactuard this le Paralos die guns 3 no ago. prin in back of reach. It 1 40 says or cripiles a smouther vomiting 4 years ago oquint corne ted by My R. internal brokes never has of vision.
In talking . 3 re cent menchesons, related fraction of the control o pale to to have oraphtheliers stally bald. I had the winder to be to the stally bald the winder to be to the south fort. I had or to sich the winder to be t extended, Pose pointing to L. a both hands. of R. Subtemp. Decomprassion True time of hat wet iche of justified in expering new collection of reprogram of justified with dream. you to seein express. Inormous intern resemble he bodown in leybroaplashes due to wearen to gely 24. altempted brown suisidal main What Vistriches - Bone flot expland & encour ducings have made wester great. bed in prosecut. - A Company of the Co

Case Cerebellar Cyal - Typical Philip Paus. Serg no. 10,883. 9. 6 months headaches nause-acceptal un left ridor head. Our duission frontal. Head retracted. Hands pressed on forebead enbjective fuiduigs Objective ggines, Luistus orgris Bilateral shoked disc 2-3 d. adaches mostly frontal Suboccepetateuderness Tlexion of bear on clost great painfroider flopia, Voniting. marked Lataria L. adiadococueda L. He mus ceelas hypotoricity. Luniters - il Car Brody cardea Pos Romberg , reeling gail hystaguas courses to L. Goralion July 29. 1919 Seeb occipital Exploration - Eget of L. hemisphere othing extra cerebellos found to explain the himseles needle relya few drops of strow colored fluid blanced. In further evidence.

? serous enachusid itis le Paralos di zune 3. is ago. price in back of reach. It / 40 sogs or cripiles I mouthe sometime 4 yrs. ago oguint come ted of ly P. internal trobis sums tors of vision.

" talking . 3 re curs convertisions, salarted fresh

the ing - Drowny lettergic Related fresh

energy for the colded disc, praperty delated Jeles to K. nood inophtholius and held held. in includ. Romber a poo to Ho lock no bud pot. stended . Poss pointing to d. a both hands. ? but temp. Descripe win True less of lat. thicker of weeplets absence of in coordination and respondence of justing the contribution. Til accifilal Exploration for Presumed Consellan on to bein expreed. Enomous intern resembly bodiera in leydrooplealus des to severo sid tio. Ottompted brown suisided brings Stad Ventrieles - Bone flot replands success hours formanley was too grant. I in prosumed. and the second s The second second

Case Cerebellar Cyst. - Typical helip Paus. Serg no. 10, 883. I. 6 months headaches nause - occopilal an left ridor head. Ourdunssion frontal. lead retracted. Hands pressed on forebead. zgines, Luistus of Bilateral choked disc 2 3 d. redacties mostly frontal See Bo ccepetaltere derness Tlexion of head on client great paint miles flopia, Voniting. markol Lalaria L. adiadococinedas L. He mus ceelas heg potorucity. Past poculing to & Lumiters & Car Brody cardea Por Romberg , reeling gart hystaguas courses to L. Coralion July 29. 19,9 Seeb accipilal Exploration - Gest of L. hewisphere othing extra cerebellar found to explain the limites y needle only a few drops of straw colored fleed blanied. he further evidence.

Con Chelebon ago agpecie of law Sund no 10,885 courtes handaries more verylles afterday to so to Breaden frontal In raches humbs present of artested certies friends of Believe the helder 23 & Subo cripelation derices a les bearthy whole 1 261 × 120 find muleup hasholf slove La dea boco en a las for tourity Dode ander or How berge res har grit Explorence arrest to the See 26 Jan 20 + 9- 5 oscipiles reprovation - got of hemsther who why few theprof strom down him diet. He farther so louce

Cases. gladys mulry. 21 yrs. Cerebellar Cyst years Frontal head + vorniting attacks. 10 months failure of vision subjective Objective Decolupración not bulging. office plus truptions Headach R. subtemp. Or compress. Weshuers Bilsteral Exoplethalus Down + outward squart leye Dizzeness Viens greyelids dilated Blind Laye Romberg + Il. L. baciel paresis Hallucinations of a. Daggering gait to P? Choked discs 2-30 Past pointing L. bound R. Lemanopie of R. eyerong adiadococensia L. second test of eye grounds showed above observation incornet but the vertical merideau in the R. field did not want but there was a little vision to left of ministern in the usual type of declining fuld from pressure. The first observation would have certainly made the lasion supratentarial. The visual allucinations ming he also suggest occipilal beion. Cerebellar aparation (3 tagegering gait, increased pressure, passpointing shociefatal region amall. Bleeding profuse from bone + much have a presentere of ventricle was done hare. Bone thick instead of the souseal. The puncture showed large delated veretricle appelle ing unboccipital lesion. Large aget & yellowish fluid found in mid line over 4 the rentricle. a cap of eyst removed and a circle Hellow claps stopped by. (Fixaling leving & Benkers Fluid!) (hie 6) misleading (mil Ornect field Fernan

Total marky 11 the common which was Tours healt you wing works 10 months failury view I december . View not implemed. He adoct to many many on state Jan Story such or - wind Co. SHE THE THE THE PARTY OF THE PA and bounded to go and have I have not been to be a second of the second were the first of the granes of the first of that he vertical number which it will it want want to we want to the way of the same stay for the same is the same so well as a same of the same of th or estainly and the leaves and re lindered the view love and get also suggest sange I live in African processing and the state of the stat as you to make the design from from the triples better district warner with the partie will in a most thousand is seemed long sheated one truck of he indocentical local agent a getherich flickformed in who is the the Thirther the way was a sender think ? 0 Wighous (10) Lune

llig. Darego - 41 - Cerebellar Cyst. 10 months ago influenzo - headaches at first frontal, now suboccibilar. Tires, sleepy, keeps her eyes a seed. Some change in temperament, 5-6 weeks somiting. 4- mouths hiccougus Subjective

Headaches (subscripted of times

Youting, hickoryhing

Anability to stand or walk Objective. Romberg Pos! - Falls to R. asynergia, reeling guit to K. muscl power acinin ished Transient Spoutaneous regular mass top 2D. bilateral surfeel disc. Operation Heel sain a lettle in coordinate of. Belateral in cision. Because of protrusia a ventricular sunday wasnot a mace. Large cyst in L. humishion 30 cc fluid. Walls Exercundo norma 0 all ++ Egeground normal. Lugar o gelstinouly.

20 41 - Cenebeller Cych. Could 1.2 To the beautiful to Laster - Same and the state of the state of

Case. Occustic neuroma own asse DD. Syn 4 yrs. timitus, 8 yrs headache occ vorinting It yes supair mus of vision. Helucustins of sight + colon. - Head held to lept. Lubjective. Headache Blinduss Quability to weel Objective hoises in L. ear. Bilat chake Disc 2D. Pupils dilated rystag mus, mor marked on looking Lose of L. consellege, + facial overaction on L. Kinne hige in P. ear Weber lateralized to R. Otaxia L. arm by adiadicomeria L. Part pointing l. hand? Suboccipilal tenderners L. handsido.? Roncherg keg. Seft acoustic neuroma surmounted by Large Delated Lateral Cestern. Bilateral Suboccipital bone flap. To heft. a lower st. of post fossa. Tumor size of pegeons egg. Satisfactory convoles auce.

Case. Acoustic neurona our say Les type tumbers, 3 yes hadaches sec vombing por surpair must of vision. Herraculain of right + . - Head held to sape . Blindus Bualdity to well have us t. can. Solah chate Bur 20 spiles delated regard new new marked on booking of conselection or t. exposition of hand? hands it hands it of word b. of god. the Schools new Combined by targe ge be laked Latinal Centern. and debocapital fore flex. to left a as of poets folds. turn out of frequencing. factory consideración.

Surg no 11,036 Casa, Ciccola. Amoulsion Pages previously. Headadies same line parietal + accipital regions. 8 months ago sudden total Lindres & accasional remissions. Voniting frequent Questead iness. Imouth loss of seuse of smell W Bilateral choke disc, dullness. - July 1 - R. rublemporal lecompression by fundings. weeks later return & fundings below. Subjective - Diff. in walking Bendues) Objective. Ind an optic alrophy anosmia? L. focial paresis L. adiadicon cinesia + asteres quois. Hypesthesia to Plight touch paint temp ? Complete loss of L. sided nus de seuse. Strinulat. of R. side body is dis agree able. Kg. + achilles maggerated on L. E ankle Clonus + neg. Bafuski: H. Mug. 28. - 2 nd Stage. Osteoplastic flat. Disclosure of soft rascular, reddish tunion of upper R. frontal emvolution. Protrusion of dura here disclosed tumor. Pulso high Stopped. of. Sept. 13 one defect enlarged across long. sunus I thouse s. Tuenor extruding front blood under scars. bura successed a sugther sixt of the sines. Tomor unument

less, lice of long no 11,53 c in himso our nest head adu some line de + accepital uniono. 8 mis do go ser l'ice, cora as a second removino, meting Jugueux as new month last of seeing of same to I not sist tuliness suby 1 - Resultenford sion hay fundances. used a cus + unpresenunt of as wormer all cetim o furdings whom two Vill. in walking tion gran of the stroply t. Jacial Baresi o. adiodicon maria + colono nocis. in portions to Fright touch can tout a Strin alat of P. side body or dis up us able. K. + welitter maggereted on t. E aughle Long + ne Safurani represent to 12. conjugate decto to. 28. . Though Eltoon with flas. the course of the transcription. The high turns and the formation of the discount turns. Pulso high 41. Viene reporter and screen to the well of a control the sine . I was decreased

Ciccola continued Cofied from or cushing SUL ST 1st class old decompression seemd etage - 2 kull Defect. Speration outrined. Dosey tumor paich broken offred vessels resset to either side & fing is. or reaction to operation + attempted Transfusion Smar (straig t. Smar cotton swabs Periosteal evator, j. Medle?

Perb. out must be to atlas as it

Bone Bleesing otop

Bone exposed down is

and round bit

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hour proce + bit, be

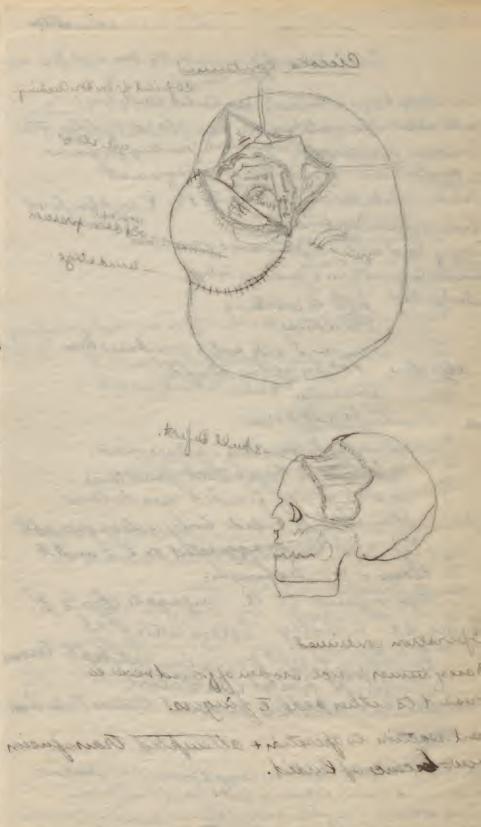
Tongens of varions

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Longens of varions

Longens of varions

Les difted by a director hiserted + a Spoon spotula under Clader a Statula for in and a Dunt trock



Jougleon. Cushing (home High 14.)

Outline of encision - Patient on bear on side high table

over face + analo- Connel aff. other. Lucis on sufuned. Surporal artery contract of gauge had been I read over outline of incession. Good never at tos. of uncision brom frow. Retractor bold temporal musele down. Ir Suice- ecc it in more under sout some in diameter Spatula to old down brain. The mid meningeal is song it i cotton opinger. Bleeding from base of skull stopped or bone was Denisphere set reflected up & beld & shatula much use of cotton Thoughs. Deera is wested back a sed a little to wax rest on base of shull younglion exposed oura net c a ting were hook buye. Then disea reflected by vocping for in ganglion Funt the \$181+ 2nd die , gang are exposed. The mid men argeal art. erroles up + over the lateral side of gading. in over 1 et branch!) Tometime the ouson not alone may be eveled: toot alt off in addition to ovucción + removed. Head what raised for a time in order to lessen the flow of a rebro spinal fluid from nerve exits & lessen the blood flow. Inall siece of muche used as hemo-Static over dural bleeding. Deced fropped before closure to fill a corebosp. fluid + cotch bluders. Bore broin Rubser lisine slaced in nuiscle eages Grug. duf to stop bleeding Silss sasked through muscle edges t of ends held Cavity file. E mulice -Brain / Sparla

Layer of silk at in our + outer layer of musch from in a small french medle. Not tied tightly. Time interrunted silk in very dagl of fascia. Cot gut would rip this fascia (Cushing) he silk built be wased. fascia of aces layer of the scals close sincultaneously from one end to take dray off fascia. Visses are not tied but only napped & latter languest in silk ties. Shin closed a stress silk on straight needles.

Decompression. (Cushing) Lucision outlined by builto scratch. Beginning frest. about the topot at 2 en below top of ear back of leup. B's branches of temporal act. Herrostasis by putting suraps on the aproceeroses wat I cry intervals + allow weight of such to occount, Lucision throughfascia over toeres. muscle through muscl, and periosteum with perios teal elevators. Hole & bit + to + electric power and enlargement & angens reflected lafted by decoupression retractors
succession in dura parallel to above incusion
mode by very contions onto a scalpel while hold iteg up the dura & forceps. Groove direction suserted To silver clips. Three comeded flaps cut.

Lewis phere bulged out.

Levis phere bulged out. inner layer of temporol all tiedat on a. (2) Some outer laye. (3) paux

bod in the fascia over muscle (only 3-4 suterres here. (Periosteum:) 4) aponeurosis - sauce. May finish many layers at one end to soackoax it together first. (5) Spin straight medle silks. - Silver foil + lang gouge. vaselen mides lar + bock of it + cotton mules rim of ear then roller bandling ge to head as a cap. Most Dustrements from Codenan - Shurtleff Boston iaunterouni! 1 Parks of the Parks of the same It was to the for the 3 Treach a single very . Dely I will review Train Boil miles 80°, - Brother Just 5-10. Spores.

Preparation Shade day of op. Alcoholt Bichlouide, One.

Unickness bichloride gauge over thole head a hole torus for face,
Sucision previously outlined. Brichloride tower about crown
and thick rubber tourniquet. Jange cut a scissors over
lincision. Troy sheet a hole test to least strings.

Jucision through scalp, fuigers of two assistants on adjection out
for humostaris. Jusps on galea q. Ion cum. Suraps reflected out
theld & gauge spronges. Periostemus reflected. Holes to tholes
Mode in virele of in cision & perforator + burn Muken) now

Giagley saw carriers (Smutumes I to prevent saw migning
dura) + saw palled through. Shelving cuts

Mode. Perios teal elevators on each side pry up the flap

Which breaks across. Cave splinter ing into oran. Some

times mecessary to and off perices of bone. I laptured back.

Exploration each. Closure by careful approximation &

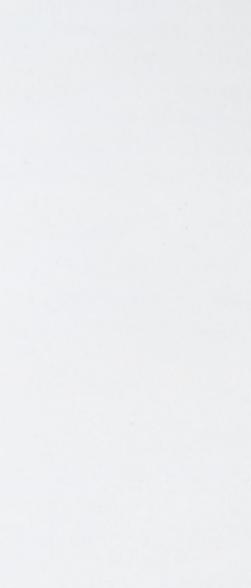
Pt. on back a bead thrown sack in Rose position. Mouth gagt ether tiebe apparatus inserted. Two to shonged a sea spongos held by second musical special table. Face cleaned lettle - bichlories. Beautonido towels to face till mouth & nose suly obowed. Carensline from ps in mares early. Upper life + tieth claved. Upper life retacoted. Fremum incised in laine of Sibultachment. Endy septem recoved. Mucous moustance clavated from ortun by various small periostes plevators. Leptim removed To Ballinger suife and song duck bill rongens 30 sucous manbrane clavated with a suife and song duck bill rongens 30 sucous manbrane also Rt. ongo duck bill rongens 30 sucous manbrane

est of seplem removed. Bivalve speculin "inserted, Sponging from line time à adrendin and with hydrogen peroxide. Sphuroid keel evoved till base of sellais exposed. This is go butten about rongues and with the punch" Dura Every deeral knife hook - never saw lunor removed. He uses seal sprom. To close Dichloramine sponge placed in horse , while 3 cat gut stitches are placetin fremue in cession sponge removed on string + stitchestied. By Karge gauge I rubber tissue drains covered à vaseleur inserted un either wares so Fend just does not press on back of (1) mouth gag dick Bin Rongeuro. Kny-Scherer n.y. (Sandpron-Sock co 129 Bayer - ajul) Kuy-Scherer Co. Odman , Churtleff (7) (Hook. Kuife - Boil I muis. Societions and Wilms. Delator Sizes 4 15 Scrzigors etc " 3 min. Klotz-jones Sol. Instruments "10 min. Zenka Formalia 10 of o.









Done Flap. Preparation Shave day of alcohol Bichloride. Our Unickness bichloride gause over whole head a hole tou for Lucision previously outlined. Buchlorick towel. and thick rubber tourniquet. Jange cut é si lucision. gray sheet e hole teed to heade string Incision through scalp, fugers of two assistants on s for hemostasis. Inops on galea g. 1012 cm. Secaps reflece + held & gauge spronges. Perios teum reflected? Holan 40th made in circle of in cesion e perforator + burn (Hedson) + nows giggley saw carriers (Sometimes 2 to prevent saw mying dura) + saw pulled through I beloing cuts Mode. Verios teal elevators ou lach side pry up to which breaks across. Cave splenter ing ento ora there necessary to cut off pieces of bone. That the Exploration easy. Closure by careful approximal

Trans sphenoid—
Pt. on back & head therown back in Pase position. Mouth gagt ether tube apparatus inserted. Facot spaged & sea sponges held byse muse it special table. Face cleaned letter & silloud. Becalorido towels to face till mouth & nose my ohowed. Carenalius ponges in mares early upper six + tolk elemed. Upper lipreta ested. Fremun in cised in land lips attachment. End of septems removed. Mucious membrane elevate from septem by various small periosteopelevators. Septem removed Tom septem by various small periosteopelevators. Septem removed Tom septem by various small periosteopelevators. Septem removed Tom septem by various small periosteopelevators.

retracted to seep tractors and muc. m accured les per down. I bost of septem removed. Bivalve speculin inserted, sponging from line to time & edrewelin and with highrogen peroxide. Sphenoid beel und cells reasoned till base of selvis exposer. This is go butten way the worst rong urs and will the punch" dura micres & long dural knife hook - never saw lunes removed. He was bypophyseal sprom. To close. Dichloramine spronge placed in horse covilie d'ile 3 cat gut stitches are placetin fremme in cession + res sponge removed on string + stitlested. By Karge gauge filled rubber tissue draws covered à vaseleur inserted in no either wares so Fend just does not press on back of Palate. autting edge (4) Chisel (Wilms) (1) mouth gag Hick Bill Rongeurs. Kny-Scherer ny. (Sancpron-Sork co 129 Bourstn-ogut) King- Scherer Co. Junea Caurtleff (8) Kuy Hook. Kuife - Boil I muis. Societions want Wilms. Delators Sizes 4 15 Serzigors etc " 3 min. Klotz-jones lot. Instruments 10 min. Zuku Formalin 10 of 0.

Transfrontal approach to Petertary region. Ducision just above the brow. Perforator + Beerr holes & bone flap mode c Juicein Gegigley Daw. Bone flap reflected. Perebrol hemsplus copped is casily reached. Ros L. hemsplus reflected up. Roof of orbit chiseland smooth but not perforated. Pelulary region reached and derra cet è devral hoofte. Dissection à sponges. Funos Rosere in loyers after replacing bone flap.

en Wordan - without of Bur and surpropropropries by their,

Perimetry Time red - Desce /4 (/2 cm diam) 10 (.2 5 draws) .015 also 4/2 com Dean 2 cm Dean Parimeter Black tim. Perinster Mindusfrom typpiece is center of man pliere of permeder Permeter turned stopping to a elick every 300 Horse shor of light emmedialely believed chair of palient, Large black back growned behind peremeter.





M territ-mirio9 SOA Marked Miller

